

Warning and Attention Symbols

You *must* be aware of safety when you install and use this system. This *User Guide* provides various procedures. If you do some of these procedures carelessly, you could *injure* or *kill* yourself or damage equipment or property. Some other procedures require special attention.



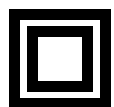
The **WARNING!** symbol means that if you are not careful,

- ♦ You could *injure* or *kill* yourself, or
- ♦ You could damage equipment or property.



The **ATTENTION!** symbol means you should pay special attention to:

- ♦ Important instructions for using the system, or
- ♦ Important instructions for maintaining the system.



The **Class II** symbol alerts qualified service personnel to use only identical replacement parts in this apparatus.

For Your Safety



Do not try to open the case of the monitor. There is risk of electrical shock, which may cause damage to the monitor and/or personal injury or death to you. There are no user-serviceable parts inside the monitor. Opening the monitor case or making unauthorized changes will void the warranty.



To reduce the risk of fire or electric shock, do not expose this appliance to rain or moisture.



While the LCD monitor technology is resistant to image burn, using video games or any external accessory with fixed images for extended periods of time can cause them to be permanently imprinted on the screen. Also, some network/program logos, phone numbers, black borders (sides, top and bottom), etc. may cause similar damage. This damage is not covered by your warranty.

Important Software Notice

As with all software controlled products, unexpected behavior could arise if the user tries to perform operations in a non-routine manner. This product, like almost any other high tech product, is subject to bugs and hence EchoStar CANNOT AND DOES NOT GUARANTEE OR WARRANT THAT ALL FEATURES, SUCH AS PARENTAL CONTROL, WILL WORK AS INTENDED UNDER ALL CIRCUMSTANCES.

Equipment and Software Covered by this User's Guide

This User Guide covers the LCD30-500 and LCD40-500 monitors. This Guide may cover other devices not listed here.

Copyright Notice

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The information in this *User Guide* may change without notice. We may issue revisions to tell you about such changes. Please send comments or questions about this *User Guide* to: *Technical Publications, EchoStar Technologies Corporation, 94 Inverness Terrace East, Englewood, Colorado 80112.*

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Safety Instructions

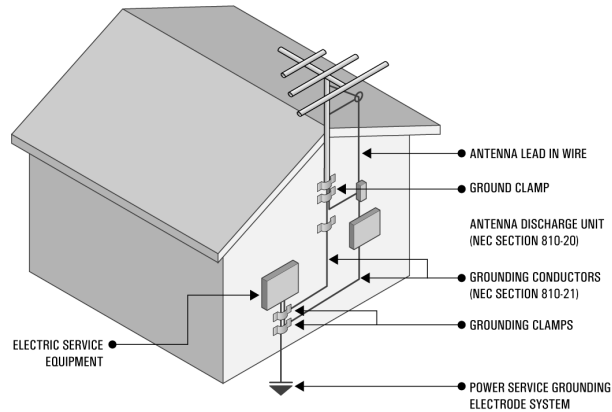
1. Read these instructions.
2. Keep these instructions.
3. Heed all warnings.
4. Follow all instructions.
5. Do not use this apparatus near water.
6. Clean only with a dry cloth.
7. Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
8. Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
9. Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding-type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
10. Protect the power cord from being walked on or pinched, particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
11. Use only attachments/accessories specified by the manufacturer.
12. Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.
13. Unplug this apparatus during lightning storms or when unused for long periods of time.
14. Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as the power supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.



Apparatus shall not be exposed to dripping or splashing and no objects filled with liquids, such as vases, shall be placed on the apparatus.

Safety Instructions

Note to installer: This reminder is provided to call the satellite TV system installer's attention to Article 820-40 of the *National Electrical Code* (NEC) that provides guidelines for proper grounding and, in particular, specifies that the cable ground shall be connected to the grounding system of the building as close to the point of cable entry as practical.



Safety Tips

- Unplug the monitor from the AC power outlet *before* cleaning.
- The use of accessories or attachments not recommended by the monitor manufacturer will void the *Limited Warranty*.
- Do *not* place the monitor in an enclosure such as a cabinet without proper ventilation.
- Do *not* stack the monitor on top of or below other electronic devices.
- Do *not* drop or impact the monitor. The LCD monitor is fragile and may break.
- Operate the monitor using *only* the type of power source indicated on the marking label. Unplug the monitor power cord by gripping the power plug, *not* the cord.
- Do *not* overload wall outlets or extension cords, as this can result in a risk of fire or electrical shock.
- *Never* insert objects of any kind into the monitor through openings, as the objects may touch dangerous voltage points or short out parts. This could cause fire or electrical shock.
- *Make sure* that the outdoor parts of the antenna system are grounded in accordance with local, state, federal, and *National Electrical Code* (NEC) requirements.
- Do *not* locate the antenna near overhead light or power circuits, or where it can fall into such power lines or circuits. When installing the antenna, take *extreme* care to avoid touching such power lines or circuits, as contact with them can be *fatal*.
- Do *not* attempt to service the monitor yourself, as opening or removing covers may expose you to dangerous voltage, and will void the *Limited Warranty*. Refer all servicing to authorized service personnel.
- Use an electrical outlet that contains surge suppression or ground fault protection. During a lightning storm, or if the monitor is to be left unattended and unused for a long period of time, unplug the power cord from the electrical outlet and disconnect the cable between the monitor and an off-air antenna, if applicable. This will provide some protection against damage caused by lightning or power line surges.

Chapter 1

Introduction

Welcome to DISH Network HDTV. This High Definition TV (HDTV) monitor will bring you the sharpest picture format available. Along with HDTV programming delivered by DISH Network, you will also be able to enhance your home entertainment system with this versatile monitor.

Key Features

Your monitor is equipped with features that will add to your TV-viewing experience. These features include the following:

DISH Digital Visual Interface (DISH DVI)

Use the DISH DVI input to connect a DISH DVI-equipped DISH Network HDTV satellite receiver. This connection provides the highest quality digital signal available for HD programming.

Unified Remote Control

The remote control provided with your DISH DVI-equipped DISH Network receiver seamlessly controls both your DISH Network HDTV monitor and satellite receiver. To program the remote to control other devices, see the satellite TV receiver User's Guide.

How to Use This Guide

Tips

In the margins of pages throughout this guide are tips and other information to make using your HDTV monitor easier.

Conventions

To make it easy for you to use this guide, we use the following conventions.

- The names of remote control buttons and modes are in all capital letters. Example: Press the **SAT** button.
- Menus and options that appear on the monitor's screen are in bold type. Example: Open the **Main Menu**.
- Connections on the back of the monitor and receiver are in small capital letters. Example: **VIDEO**.

If You Run Into Problems

There are problems you might run into that are easy to solve. Before you call the Customer Service Center, be sure to refer to *Chapter 5, Troubleshooting*. If problems remain call the Customer Service Center at 1-800-333-DISH (3474).

Tip: Save your purchase receipt for the monitor. See the Limited Warranty on page 37 for details.

Chapter 2

Monitor Description

Monitor Display and Media Box

There are three main components of the LCD monitor - the monitor display, the Media Box, and the power supply.

The monitor display is a flat, thin screen that shows the video. The display includes speakers attached to both sides to play audio and includes an integral stand for table-top mounting.

Note: Remove the film covering the monitor's screen.

The Media Box includes the monitor controls and provides the audio/video input connections for your DISH Network satellite receiver and other devices. It connects to the monitor display using a system cable. The Media Box can either be mounted on the back of the monitor display or mounted separately whichever makes getting to the controls or connections easier.

Note: To mount the Media Box to the display, insert four mounting posts on the Media Box into the matching key-shaped holes on the display back panel and push down to lock in place. To remove the Media Box, press down and hold the locking clip at the bottom of the Media Box while gently pulling the Media Box up and then away from the monitor.

The power supply provides power from a wall outlet to the monitor through a connection on the display back panel.

See *Chapter 4* for installation instructions.



Monitor - Front View

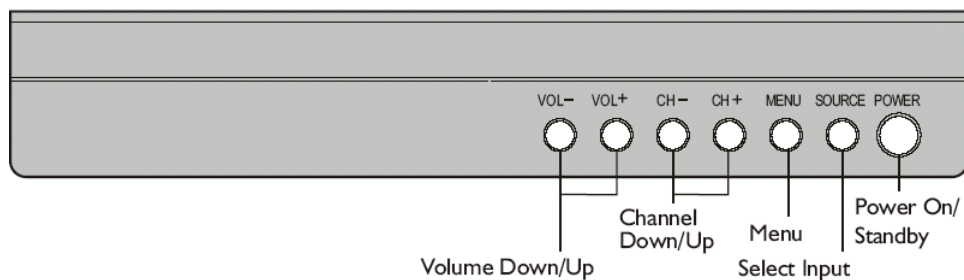


**Monitor - Back View
with Media Box Attached**



**Monitor - Back View
with Media Box Mounted Separately**

Media Box Front Panel



The front panel buttons may be used to operate many of the monitor's features.

Menu

Displays the **Main Menu**. Use the **MENU** button to go back one level in the menus.

Channel Controls

Changes channels on the monitor's **TV** input. While in the menus, use the **CHANNEL +/-** to move vertically through the menus.

Note: Normally, you would want to change programming channels using the DISH Network satellite receiver and its Electronic Program Guide.

Volume Controls

Turns the volume up or down. While in the menus, use the **VOL +/-** to move horizontally through the menus and adjust menu settings. In the **Source Select** menu, use the **VOL +/-** to move the highlight to a different input.

Power

Turns the monitor on and off.

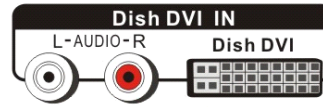
Source

Displays the **Source** menu. In the **Source** menu, once the desired input is highlighted using the **VOL +/-** buttons, use the **SOURCE** button to switch to the highlighted input.

Media Box Back Panel

DISH DVI Input

Connect a DISH DVI-equipped DISH Network HD receiver to watch high definition programming.

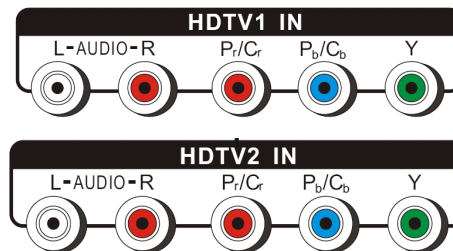


- **DISH DVI** - Provides a high-quality digital video interface.
- **L-AUDIO-R** (RCA-type audio) - Provides left (white) and right (red) audio connections when using the **DISH DVI** video input.

Tip: Remember to connect the left and right audio cables because the DISH DVI cable carries the video signal, not the sound.

Component Inputs

Connect a component video source, such as an HD device or a DVD player, to **HDTV1 IN** or **HDTV2 IN**.



- **Y-P_B-P_R / Y-C_B-C_R** (Component Video) - Provides optimum picture quality because the video is separated into three components: **Y** (green), **P_B/C_B** (blue), and **P_R/C_R** (red).
- **L-AUDIO-R** (RCA-type audio) - Provides left (white) and right (red) audio connections when using the **COMPONENT INPUTS**.

VGA Input

Connect a VGA video source, such as a computer, to **VGA IN**.



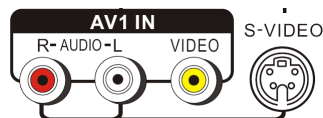
- **VGA** - Provides optimum picture quality because the video is separated into its individual pieces and travels along the connector's pins.
- **AUDIO** (3.5 mm mini-jack) - Provides stereo (left and right) audio when using the **VGA IN** video input.

Note: There is also a VGA input on the monitor itself. This input can only be used when the Media Box' system cable is disconnected from the monitor. Make sure that the monitor is powered off before disconnecting the system cable.

Monitor Description

S-Video and Composite Inputs

Connect another device, such as a VCR or DVD player, to **S-VIDEO**, **AV1 IN**, or **AV2 IN**.



- **VIDEO** (RCA-type Video) - Provides composite video connections (yellow) for the **AV1 IN** and **AV2 IN** inputs.
- **S-VIDEO** - Provides better picture quality than the RCA-Type Video (yellow) connections because the video is separated into two parts: color and brightness.

Note: When connected, **S-VIDEO** replaces the **AV1 IN VIDEO** input and uses the **AV1 IN** audio inputs.

- **R-AUDIO-L** (RCA-type audio) - Provides right (red) and left (white) audio connections when using the **AV1 IN** or **AV2 IN** inputs.



Audio/Video Outputs

Connect an amplifier, audio receiver, VCR, or external video monitor to **AV OUT**.



- **VIDEO** (RCA-type Video) - Provides a composite video output (yellow).

Note: This video output does not include menu overlays or messages.

- **R-AUDIO-L** (RCA-type audio) - Provides right (red) and left (white) variable audio outputs.

Note: The **AV OUT** only provides video from a standard-definition input. If you are using a high-definition input, the **AV OUT** displays content from the **TV1 INPUT**.

Antenna/Cable Inputs (Capped)

Connect an antenna to **TV1** or **TV2** to receive analog broadcasts from an off-air antenna.



Note: For the best viewing experience, you should use the off-air tuner provided in your DISH DVI-equipped DISH Network satellite receiver. The satellite receiver's off-air tuner can receive both analog and digital off-air broadcasts, integrates off-air programming into its Electronic Program Guide, and allows all of the satellite and off-air programming to be viewed over a single high-quality digital connection.

Note: The **TV1** and **TV2** inputs are for standard definition channels only.

Headphone Jack

HEADPHONE - Provides a stereo 3.5 mm mini-jack audio output. To control the volume for this input, see page 17.



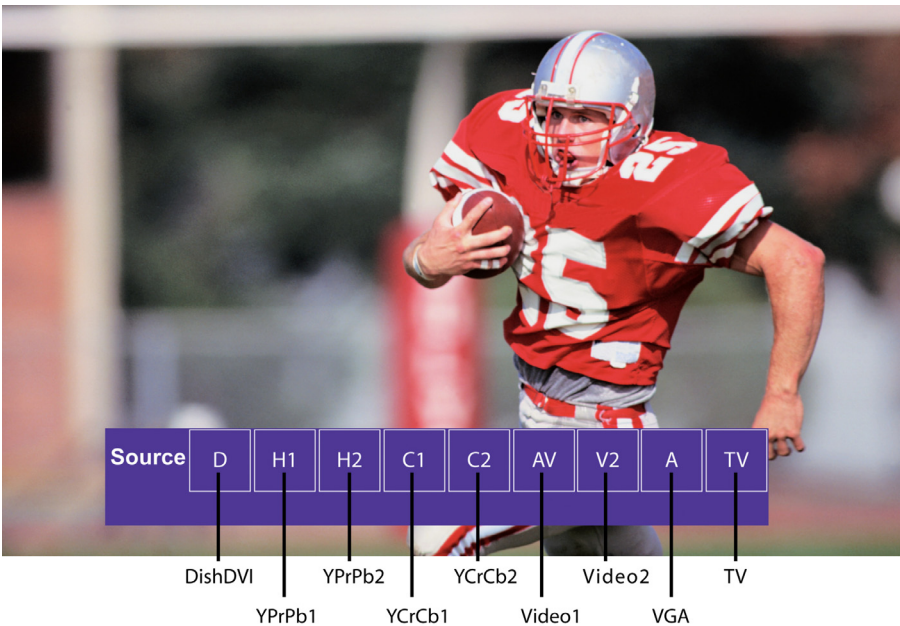
Using the Monitor's Inputs

To view the programming provided through the audio/video connections on the Media Box, the DISH LCD monitor must be switched to the correct input. To switch to the desired input, find its source name on the example screen below, and then either:

- Press the **INPUT** button on the remote control to switch inputs until the input name is highlighted on the **Source Select** bar, or
- Press the **GUIDE** button on the remote control, then use the **LEFT** and **RIGHT ARROWS** to highlight the input name on the **Source** bar, then press **SELECT**.



Tip: Remember to keep the remote control in TV mode for these buttons to work as described.



Note: The **H1** and **C1** inputs share the same physical connection on the Media Box (**HDTV1 IN**), but need to be selected separately depending on what device is connected. For example, **H1** is for high definition sources (720p or 1080i), which include DISH HD receivers and HD gaming consoles, while **C1** is for enhanced definition sources (480p) which include DVD Players and non-HD gaming consoles.

Note: In the **Source** bar, the **AV** input becomes the **SV** input when an S-Video cable is connected from a device to the Media Box.

Using the Remote Control

The remote control gives you easy access to the features of your monitor. This remote control is provided with your DISH DVI-equipped DISH Network satellite receiver.

Note: Your remote control may look slightly different than that shown.



Remote Control Buttons

The following section describes how to use the remote control with your monitor.

Mode Buttons



The mode buttons on your remote control allow you to control your monitor, DISH Network satellite receiver, and other devices.

- Press the **SAT** mode button to turn on the monitor and DISH Network satellite receiver, and change the monitor to the DISH DVI input so you can watch satellite programming.

Note: You may need to press the **SAT** button a second time to switch the input to **DISH DVI**.

This action also puts the remote control into the **SAT** mode, enabling it to control the satellite receiver. Refer to your satellite receiver *User's Guide* instructions to control your satellite receiver.

- Press the **TV** mode button to control the DISH Network LCD monitor. See the section below for details on monitor controls.
- Press the **VCR** and **AUX** mode buttons to control other devices.

See the *User's Guide* that came with your DISH Network satellite receiver for instructions on using the **VCR** and **AUX** mode buttons to program the remote to control other devices.

Tip: Normally, you would want to use the remote control in **SAT** mode to watch DISH Network programming and to use the extensive features of your DISH Network satellite receiver.

TV Mode Button



Pressing the **TV** mode button puts the remote control in the **TV** mode. When in the **TV** mode, the other remote control buttons work as described below to control monitor features.

Note: Your remote control provided with your DISH DVI-equipped DISH Network satellite receiver comes from the factory ready to work with your DISH Network LCD monitor. However, the **TV** mode button can be programmed to operate other TVs. If the remote control has been programmed to operate a different TV and you wish to restore the remote control factory settings to control your DISH Network LCD monitor, see *Restoring Your Remote Control's Factory Settings for Monitor Control* on page 31.

Power Buttons

Press the **POWER** or **TV POWER** button to turn the monitor on or off. The **TV POWER** button will also turn the monitor on or off in other remote control modes.



Monitor Description

Tip: Remember to keep the remote control in TV mode for these buttons to function as described.

SD/HD Input Button

Press the SD/HD INPUT button to switch to the next input on the monitor.



Menu Button

Press the MENU button to open the **Main Menu**. Use the MENU button to step back out of the menus.



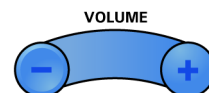
Mute Button

Press the MUTE button to turn off the monitor sound. Press it again to restore the monitor sound. The MUTE button will mute and restore the monitor volume in other remote control modes.



Volume Button

Press the minus (-) side of the VOLUME button to lower the monitor volume. Press the plus (+) side of the VOLUME button to raise the monitor volume. The VOLUME button will change the monitor volume in other remote control modes.



Guide Button

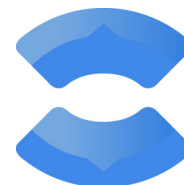
Press the GUIDE button to display the **Source Select** menu. When displayed, use the LEFT and RIGHT ARROWS to highlight an input, and then select the input. While in the TV menus, press the GUIDE button to bring up the current input and channel information on the right side of the screen.



Up and Down Arrow Buttons

Press the UP and DOWN ARROW buttons to:

- Move up and down in a menu.
- Move the picture up and down on the screen when in **Pan** mode (described on page 25).
- Zoom the picture in and out when in **Zoom** mode (described on page 25).
- In Picture-in-Picture (**PIP**) mode, the UP ARROW will select a picture window for channel changes and audio control, while the DOWN ARROW will move the PIP window around the screen. See page 14 for information about **PIP**.



Left and Right Arrow Buttons

Press the LEFT and RIGHT ARROW buttons to:

- Move left and right in a menu
- Adjust menu settings.
- Move the picture left and right on the screen when in **Pan** mode (described on page 25).



In Picture-in-Picture (**PIP**) mode, after selecting a window using the UP ARROW, the LEFT ARROW will allow the monitor to play the selected picture window's sound through the monitor's speakers, while the RIGHT ARROW will allow the monitor to play the selected picture window's sound through the headphone output. See page 14 for information about **PIP**.

Page Up and Page Down Buttons

Press the PAGE UP and PAGE DOWN buttons to change the channel up or down on the monitor's internal off-air tuner (**TV** input).



Note: For the best viewing experience, you should use the off-air tuner provided in your DISH DVI-equipped DISH Network satellite receiver. The satellite receiver's off-air tuner can receive both analog and digital off-air broadcasts, integrates off-air programming into its Electronic Program Guide, and allows all of the satellite and off-air programming to be viewed over a single high-quality digital connection.

Note: The **TV** input is for standard definition channels only.

Recall Button

Press the RECALL button to go back to the last channel or input you watched. Press it again to switch between the last two channels or inputs you watched.



Select/OK Button

Press the SELECT/OK button to:

- Select menu items.
- Tune to a channel once entered in using the NUMBER PAD.
- Tune to an input once highlighted in the **Source Select** menu.



Info Button

Press the INFO button to activate the **Pan and Zoom** feature. The **Pan and Zoom** feature is described on page 25.



Cancel Button

Press the CANCEL button to remove any menu or display from the screen and return to normal viewing. While in PIP or POP, press the CANCEL button to return to **Full Screen** viewing.



Tip: Remember to keep the remote control in TV mode for these buttons to function as described.

Monitor Description

Tip: PIP lets you watch two channels at the same time - one channel on the main screen and the other in a smaller window. POP also lets you watch two channels at the same time - one channel on the left side of the screen (main picture) and the other on the right.

Pound (#) Button

Press the POUND (#) button to open the **Picture Mode** menu. The **Picture Mode** menu is described on page 13.



Star / Format (*) Button

Press the STAR (*) button to set the **Sleep Timer** to turn off the TV after a given amount of time. The **Sleep Timer** is described on page 13.



PIP Button

Press this button to open the **PIP** window. Press the button a second time to open the Picture-Outside-Picture (**POP**) window. When you press the PIP button a third time, the **POP** window will close. See page 14 for more details on PIP and POP.



Note: Not all inputs may be available for **PIP/POP** windows.

Swap Button

Press this button to swap the video in the main display with the video in the **PIP** or **POP** window.



Note: The SWAP button may not work with all inputs.

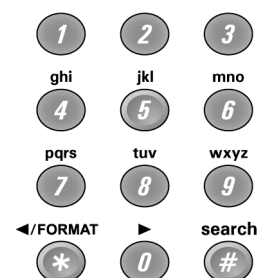
Position Button

Press this button to move the **PIP** window to different positions on the monitor screen.



Number Pad Buttons

Use the NUMBER PAD buttons to enter a channel number to change the channel. Once entered in, press the SELECT/OK button to tune to the channel.



Note: For the best off-air viewing experience, you should use the off-air tuner provided in your DISH DVI-equipped DISH Network satellite receiver. The satellite receiver's off-air tuner can receive both analog and digital off-air broadcasts, integrates off-air programming into its Electronic Program Guide, and allows all of the satellite and off-air programming to be viewed over a single high-quality digital connection.

Note: The **TV** input is for standard definition channels only.

Chapter 3

Using the Monitor's Features

One-Button Features

Satellite System Power-Up

Once your HDTV monitor and DISH Network satellite TV receiver are connected with a **DISH DVI** cable, press the **SAT** button to power on both the monitor and satellite receiver. After the monitor is on, pressing the **SAT** button will always switch the display to satellite programming.

Picture Mode

Press the **POUND (#)** button on the remote to display the **Picture Mode** setting. Then, use the **LEFT** and **RIGHT ARROWS** to scroll through available video modes that enhance your viewing experience by modifying your **Brightness** and **Contrast** settings. The four options available are **Normal**, **Soft**, **Bright**, and a **User** definable setting.

Sleep Timer

Press the **STAR (*)** button on the remote to display the **Sleep Timer** setting. Then, use the **LEFT** and **RIGHT ARROWS** to specify how long until the monitor turns itself off. The amounts of time range from 0 to 120 minutes, in 15 minute increments.

Digital Pan and Zoom

Press the **INFO** button to activate the **Digital Pan and Zoom** feature. Then press the **UP** and **DOWN ARROWS** to zoom in and out. Press **SELECT** to switch between **Zoom** and **Pan**. When panning, use the **ARROW BUTTONS** to move around the screen.

Using the Monitor's Features

PIP and POP

The **PIP** feature lets you display a second, smaller picture on top of the main picture. The **POP** feature lets you display two windows side by side. The main picture is on the left and the **POP** window is on the right.



PIP Example



POP Example

Tip: Remember to keep the remote control in TV mode to use these buttons.

There are several remote buttons that control the way the PIP window works:

- **PIP** - Press this button to open the PIP window. Press the button a second time to open the POP window. When you press the PIP button a third time, the POP window will close.



Note: When in POP, the picture on the left is the one that remains when you close the POP window.

Note: In either PIP or POP, you can choose where each window's audio is played. Press the **UP ARROW** until the desired window is highlighted. Then, either press the **LEFT ARROW** to play that window's audio through the monitor's speakers or press the **RIGHT ARROW** play the audio through the **HEADPHONE** output on the Media Box.

- **POSITION** - Press this button to move the PIP window to different positions on the monitor screen.



Note: The **DOWN ARROW** button also moves the PIP window.

- **SWAP** - Press this button to swap the video in the main display with the video in the PIP window.



Note: The **SWAP** button will only work in PIP while displaying two standard definition inputs.

Remote Control Buttons

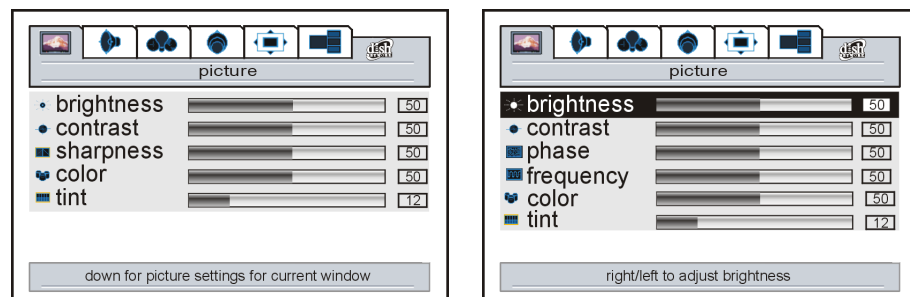
<u>SAT Mode</u>	<u>TV Mode</u>		<u>TV Mode</u>	<u>SAT Mode</u>
<ul style="list-style-type: none"> Turns the satellite receiver on or off 	<ul style="list-style-type: none"> Turns the monitor on or off 		<ul style="list-style-type: none"> Change the channel up or down on the monitor's internal off-air tuner 	<ul style="list-style-type: none"> Scan, page by page, through the Program Guide, a Theme Categories list, a Favorite List, an Event Timers list, or a list of channels
<ul style="list-style-type: none"> Places the remote in SAT mode 	<ul style="list-style-type: none"> Turns monitor on and places it into DVI input mode 		<ul style="list-style-type: none"> Brings up the monitor input source options 	<ul style="list-style-type: none"> Opens the satellite receiver's Electronic Program Guide
<ul style="list-style-type: none"> Switches between HD and SD modes 	<ul style="list-style-type: none"> Switches between the various inputs to the monitor 		<ul style="list-style-type: none"> Moves up in a menu Moves the picture up in Pan mode Zooms the picture in when in Zoom mode Selects a picture window for channel changes and audio control in PIP mode 	<ul style="list-style-type: none"> Changes the channel up one at a time Moves up in a menu
<ul style="list-style-type: none"> Opens the satellite receiver's main menu 	<ul style="list-style-type: none"> Opens the monitor's main menu 		<ul style="list-style-type: none"> Moves right in a menu Moves the picture right on the screen when in Pan mode Determines which PIP window's content is delivered to the headphone jack 	<ul style="list-style-type: none"> Moves right in a menu Opens the Browse banner
<ul style="list-style-type: none"> Raises or lowers the monitor's volume level 	<ul style="list-style-type: none"> Mutes the monitor's sound 		<ul style="list-style-type: none"> Removes any menu or display to go to normal viewing Return to full screen while in PIP or POP mode 	<ul style="list-style-type: none"> Cancel a procedure and return to the previous menu or watching a program
<ul style="list-style-type: none"> Moves left in a menu Opens the Themes menu 	<ul style="list-style-type: none"> Moves left in a menu Moves the picture left on the screen when in Pan mode Determines which PIP window's content is delivered to the monitor's speakers Displays input information 		<ul style="list-style-type: none"> Select menu items Tune to a channel once entered using the number pad 	<ul style="list-style-type: none"> Select a highlighted option or program in a menu
<ul style="list-style-type: none"> Go back to the last channel you watched Switch between the last two channels you watched 	<ul style="list-style-type: none"> Switches to last input or channel 		<ul style="list-style-type: none"> Moves the PIP window to different positions on the screen 	<ul style="list-style-type: none"> Opens PIP window Enlarges PIP window Closes PIP window
<ul style="list-style-type: none"> Changes the channel down one at a time Moves down in a menu 	<ul style="list-style-type: none"> Moves down in a menu Moves the picture down in Pan mode Zooms the picture out when in Zoom mode Moves the PIP window around the screen 		<ul style="list-style-type: none"> Opens PIP window Opens POP window Closes POP window 	<ul style="list-style-type: none"> Opens PIP window Enlarges PIP window Closes PIP window
<ul style="list-style-type: none"> Get helpful information in a menu Get information on a program 	<ul style="list-style-type: none"> Activate the Pan and Zoom feature 		<ul style="list-style-type: none"> Enter a channel number and press SELECT/OK to tune to a channel 	<ul style="list-style-type: none"> Enter a channel number Enter menu options Enter search criteria in the Search menu
<ul style="list-style-type: none"> Switch programs between the receiver's PIP window and the main screen (SD content only) 	<ul style="list-style-type: none"> Switch between the PIP window and the main screen (SD content only) 		<ul style="list-style-type: none"> Open the Picture Mode menu 	<ul style="list-style-type: none"> Opens the Search menu
<ul style="list-style-type: none"> Changes the picture mode 	<ul style="list-style-type: none"> Set the Sleep Timer 			

Menu System

When you press the **MENU** button on the remote control, the main menu is displayed with six different sub-menus. Use the menus described below to customize settings on your monitor.

Picture Menu

The **Picture** menu options apply to the video for the main TV and video input selections. To open the **Picture Menu**, press **MENU** and then highlight the **Picture** icon on the far left using the **LEFT** and **RIGHT ARROWS**. Use the **UP** and **DOWN ARROWS** to highlight an option, and adjust it using the **LEFT** and **RIGHT ARROWS**.



The ways that you can adjust the picture will vary depending on which video input is being viewed. For example, the **AV** input offers **Sharpness**, **Color**, and **Tint** options; the **H1** input instead offers **Phase** and **Frequency** options.

Brightness

Adjusts the brightness of the picture.

Contrast

Adjusts the difference between the light and dark areas of the picture.

Sharpness

Adjusts the crispness of the edges in the picture.

Color

Adjusts the richness of the color.

Tint

Adjusts the balance between the red and green levels.

Phase

Adjusts the clarity of the image.

Frequency

Adjusts the monitor to minimize any shimmering or rainbow-like noise displayed.

Tip: Remember to keep the remote control in TV mode to highlight and adjust options.

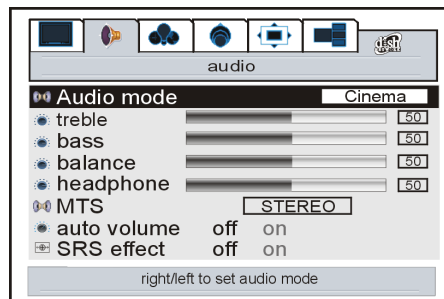
Tip: You can adjust sharpness for each channel. This is useful if the video appears fuzzy.

Color Temperature

Adjusts the color to be warmer or cooler. The five options available are **Warmest**, **Warm**, **Normal**, **Cool**, and **Coolest**.

Sound Menu

The **Sound** menu allows you to customize the sound settings on your HDTV monitor. To open the **Sound Menu**, press **MENU** and then highlight the **Audio** icon (second from the left) using the **LEFT** and **RIGHT ARROWS**. Use the **UP** and **DOWN ARROWS** to highlight an option, and adjust it using the **LEFT** and **RIGHT ARROWS**.



Tip: Remember to keep the remote control in TV mode to highlight and adjust options.

Audio Mode

Scroll through available sound modes to enhance your audio experience. The four options available are **Cinema**, **Music**, **News**, and a **User** definable setting.

Treble

Adjusts the treble.

Bass

Adjusts the bass.

Note: The **Audio Mode** must be set to **User** to be able to adjust **Treble** and **Bass**.

Balance

Adjusts the sound more to the right or left.

Headphone

Adjusts the volume of the headphone output.

Using the Monitor's Features

MTS

Scrolls through the available audio types to control the way the sound comes through your speakers.

- **Stereo** - Splits the incoming stereo audio signal into left and right channels. Most TV programs and recorded materials have stereo audio. The word **Stereo** appears in the channel banner when you tune to a program that is broadcast in stereo.
- **SAP** - Plays any Secondary Audio Programming that may be carried with the program, such as a Spanish audio track or Descriptive Video for the hearing impaired.
- **Mono** - Plays the sound in mono only. Use this setting when receiving broadcasts with mono or weak stereo audio signals.

Note: The **MTS** option only appears on the **TV** input.

Auto Volume

Enable **Auto Volume** to lower the sound level when a program's audio is loud, and to raise the sound level when a program's audio is quiet.

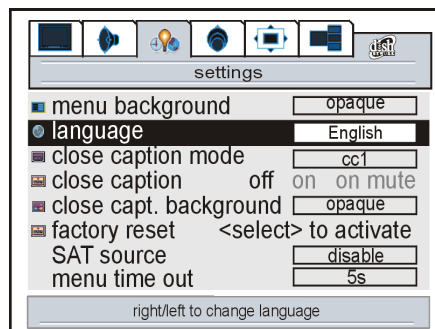
SRS Effect

Enable **SRS Effect** (Sound Retrieval System) to make a stereo audio signal sound more natural and three-dimensional.

Settings Menu

Tip: Remember to keep the remote control in TV mode to highlight and adjust options.

The **Settings** menu allows you to customize the menus and closed captioning on your HDTV monitor. To open the **Settings Menu**, press **MENU** and then highlight the **Settings** icon (third from the left) using the **LEFT** and **RIGHT ARROWS**. Use the **UP** and **DOWN ARROWS** to highlight an option, and adjust it using the **LEFT** and **RIGHT ARROWS**.



Menu Background

Change the background of the menu system to either **Opaque** or **Translucent**.

Language

Select the language in which the menus will appear: **English**, **Espanol** (Spanish), or **Francais** (French).

Closed Caption Mode

Select a closed caption setting from the following list: **cc1**, **cc2**, **t1**, **t2**, **cc3**, **cc4**, **t3**, or **t4**. These settings represent one of four different closed captioning channels in either Caption (cc) or Text (t) mode. In **Caption** mode, the dialog or commentary shows up as text while not blocking the picture. In **Text** mode, information independent of the program is shown over the picture, such as a weather forecast or a TV program schedule.

Closed Caption

Change closed caption settings.

- **Off** - Turns off closed captioning
- **On** - Turns on closed captioning.
- **On Mute** - Turns on closed captioning only when the TV is muted.

Closed Caption Background

Select either an **Opaque** or **Transparent** background for closed caption displays.

Note: **Closed Caption Mode** and **Closed Caption Background** options are only available when **Closed Caption** is set to **On**, or set to **On Mute** when the TV is muted.

Factory Reset

Press **SELECT** to bring up a confirmation screen asking if you want to reset all settings back to factory defaults. Use the **RIGHT** and **LEFT ARROWS** to highlight **Yes**, then press **SELECT** to perform the reset.

Sat Source

Select the input that the monitor will switch to when the **SAT** button is pressed.

Note: If you want to disable this feature, select the **Disable** option.

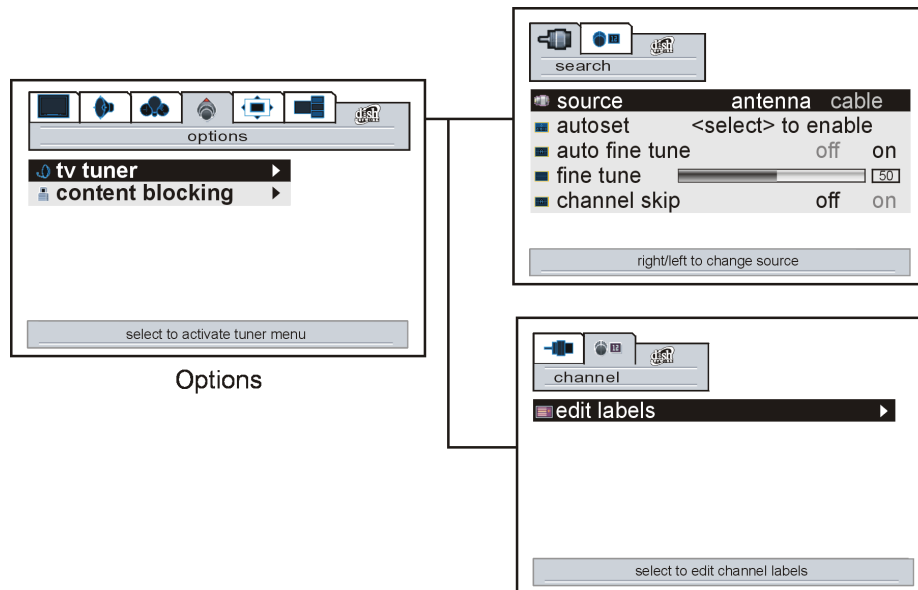
Menu Time Out

Select how long the menus stay on the screen before returning to programming: **5s**, **15s**, **60s**, or **5 min**.

Options Menu

Tip: Remember to keep the remote control in TV mode to highlight and adjust options.

The **Options Menu**, only available on the **TV**, **AV/SV**, and **V2** inputs (see page 6 for descriptions), allows you to set up and customize your TV channels and set up locks based on programming content. To open the **Options Menu**, press **MENU** and then highlight the **Options** icon (third from the right) using the **LEFT** and **RIGHT ARROWS**. Use the **UP** and **DOWN ARROWS** to highlight an option, and adjust it using the **LEFT** and **RIGHT ARROWS**.



TV Tuner Menus

The **TV Tuner Menu**, only available for the **TV** input, allows you to set up and customize your TV channels. To open the **TV Tuner Menu**, select **TV Tuner** from the **Options Menu**. To return from the **TV Tuner** menus, press the **MENU** button.

Search Menu

To open the **Search Menu**, highlight the **Search** icon (on the left) from the **TV Tuner Menu** using the **LEFT** and **RIGHT ARROWS**. Use the **UP** and **DOWN ARROWS** to highlight an option, and adjust it using the **LEFT** and **RIGHT ARROWS**.

Source

Set the **TV** input for either an **Antenna** or **Cable** TV source.

Autoset

Select **Autoset** to automatically scan through channels and add them to the TV's memory. To stop a scan in progress, press the MENU button.

Auto Fine Tune

Enable **Auto Fine Tune** to automatically tune a channel's frequency to obtain the best picture and sound.

Fine Tune

Manually tune a channel's frequency to obtain the best picture and sound.

Channel Skip

Add or remove a channel from the TV's memory.

- **Off** - Turning **Channel Skip Off** adds the channel to the TV's memory.
- **On** - Turning **Channel Skip On** removes the channel from the TV's memory. The channel may only be accessed by direct entry on the NUMBER PAD.

Channel Menu

To open the **Channel Menu**, highlight the **Channel** icon (on the right) from the **TV Tuner Menu** using the LEFT and RIGHT ARROWS.

Edit Labels

Select **Edit Labels** to allow channel labels to be changed. Use the PAGE UP and DOWN buttons to select a channel, then use the ARROW BUTTONS to edit that channel's label. The INPUT button will clear the current entry, and the MENU button will return you to the menus.

Content Blocking Menu

Note: Your DISH Network satellite receiver has parental locks that can lock out DISH Network programming based on ratings, content, or by channel.

The **Content Blocking Menu** allows you to block TV (non-satellite) programs and movies containing violence, sex, or other content that may not be appropriate for some viewers (e.g. children). After you block programs, you can unblock programs by entering a password. By default, the software inside your TV is turned off. To open the **Content Blocking Menu**, select **Content Blocking** from the **Options Menu**. To return from the **Content Blocking** menus, press the MENU button.

Note: Content Blocking may only be accessed on the **AV/SV, V2, and TV** inputs.

Using the Monitor's Features

Password Menu

The **Password Menu** is where you must enter and can change the password for the content blocks. To open the **Password Menu**, highlight the **Password** icon (on the left) from the **Content Blocking Menu** using the LEFT and RIGHT ARROWS.

Enter

To enter the user-defined six-digit password, use the UP and DOWN ARROWS to change each digit one at a time, and use the LEFT and RIGHT ARROWS to move to the next digit and then select **OK**.

Note: The initial password is 000000. After you have set up locks, you may change the password.

Change

After the correct password has been entered, the **Change** option will appear. If you want to change the password, use the UP and DOWN ARROWS to change each digit one at a time, and use the LEFT and RIGHT ARROWS to move to the next digit, and then select **OK**.

Movie Blocking

The **Movie Blocking Menu** is where you can set locks based on non-satellite movie ratings. To open the **Movie Blocking Menu** after entering the password, highlight the **Movie Blocking** icon (in the middle) from the **Content Blocking Menu** using the LEFT and RIGHT ARROWS.

In this menu, you will see the ratings below. To lock a rating, highlight it using the ARROW BUTTONS and press SELECT. Locking a rating also locks all ratings below it. For example, locking **R** also locks **NC-17**, **X**, and **NR**.

Rating	Description and Content Themes for Age-Based Ratings
G	General Audiences - All ages admitted.
PG	Parental Guidance Suggested - Some material may not be suitable for children.
PG-13	Parents Strongly Cautioned - Some material may be inappropriate for children under 13.
R	Restricted - Under 17 requires accompanying parent or adult guardian.
NC-17	No One 17 and Under Admitted.
X	X Rated - An older rating unified with NC-17 but may be used in older movies.
NR	Not Rated

TV Blocking

The **TV Blocking Menu** is where you can set blocks based on non-satellite TV ratings. To open the **TV Blocking Menu** after entering the password, highlight the **TV Blocking** icon (on the right) from the **Content Blocking Menu** using the LEFT and RIGHT ARROWS.

In this menu, you will see both age and content ratings below. To lock a rating, highlight it using the ARROW BUTTONS and press SELECT. Locking a rating also locks all ratings below it. For example, locking **TV-PG** also locks **TV-14** and **TV-MA**. To lock a content theme within a rating, highlight it using the ARROW BUTTONS and press SELECT. For example, locking **TV-14 V** (violence) also locks **TV-MA V** (violence).

Note: Broadcasters are not required to provide content themes or age-based ratings.

Rating	Description and Content Themes for Age-Based Ratings
TV-Y	All Children - Themes and elements in this program are designed for a young audience, including children from ages 2-6. It is not expected to frighten younger children.
TV-Y7	Directed to Children 7 Years and Older - Designed for children ages 7 and above. It may be more appropriate for children who have acquired the developmental skills needed to distinguish between make-believe and reality. Themes and elements in this program may include mild fantasy violence (FV) or comedic violence, or may frighten children under the age of 7.
TV-G	General Audience - Most parents would find this program suitable for all ages. It contains little or no sexual dialogue (D) or situations (S), no strong language (L), and little or no violence (V).
TV-PG	Parental Guidance Suggested - Contains material that parents may find unsuitable for younger children. Many parents may want to watch it with their younger children. The program contains one or more of the following content themes: some suggestive dialogue (D), infrequent coarse language (L), some sexual situations (S), or moderate violence (V).
TV-14	Parents Strongly Cautioned - Contains some material that many parents would find unsuitable for children under 14. Parents are strongly urged to exercise greater care in monitoring this program and are cautioned against letting children under the age of 14 watch unattended. This program contains one or more of the following content themes: intensely suggestive dialogue (D), strong coarse language (L), intense sexual situations (S), or intense violence (V).
TV-MA	Mature Audience Only - Specifically designed to be viewed by adults and may be unsuitable for children under 17. It contains one or more of the following content themes: crude indecent language (L), explicit sexual activity (S), or graphic violence (V).

Tip: Remember to keep the remote control in TV mode to highlight and adjust options.

Content Themes	
D	Sexually explicit dialogue
L	Adult language
S	Sexual situations
V	Violence
FV	Fantasy Violence

Window Menu

The **Window** menu allows you to customize how images appear on your HDTV monitor. To open the **Window Menu**, press **MENU** and then highlight the **Window** icon (second from the right) using the **LEFT** and **RIGHT ARROWS**. Use the **UP** and **DOWN ARROWS** to highlight an option, and adjust it using the **LEFT** and **RIGHT ARROWS**.

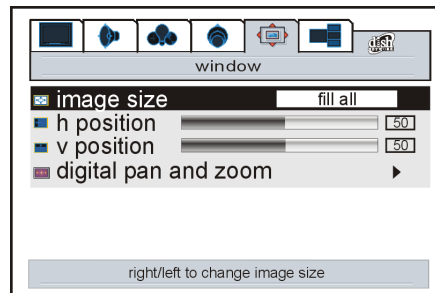


Image Size

Scroll through the available **Image Size** options, which adjust how the image is displayed on the screen.

- **Normal** - The picture is displayed without modification, in its native resolution and aspect ratio.
- **Fill All** - The picture is stretched vertically and horizontally to fill the display from edge to edge.
- **Wide** - A 4:3 image is stretched to fill a 16:9 display with as little distortion of the image as possible. The stretching only occurs on the sides of the image, with the extreme edges of the picture showing the most stretching. Additionally, the top and bottom 5% of the picture are cropped.
- **Zoom** - A 16:9 image has its top and bottom cropped by 10%, then fills the screen horizontally. A 4:3 image has all sides cropped 16.5%, then fills the screen.

Note: **Wide** and **Zoom** image sizes are only available on **AV/SV**, **V2**, and **TV** inputs.

H Position

Adjusts the horizontal position of the picture.

V Position

Adjusts the vertical position of the picture.

Note: **H Position** and **V Position** are NOT available on the **D (DISH DVI)** input.

H Wide

Adjusts the width of the picture.

V High

Adjusts the height of the picture.

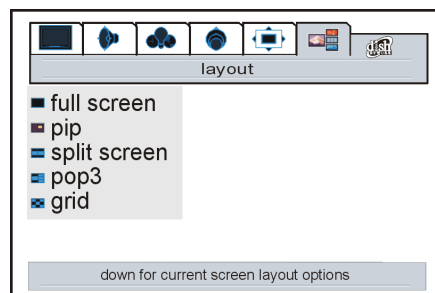
Note: **H Wide** and **V High** are only available on the **H1** and **H2** inputs.

Digital Pan and Zoom

Press the **RIGHT ARROW** once to select **Digital Pan and Zoom**. Once selected, press the **UP** and **DOWN ARROWS** to zoom in and out. Press **SELECT/OK** to switch between **Zoom** and **Pan**. When panning, use the **ARROW BUTTONS** to move around the screen.

Layout Menu

The **Layout** menu allows you to alter Picture-in-Picture (PIP) settings on your HDTV monitor. To open the **Layout Menu**, press **MENU** and then highlight the **Layout** icon on the far right using the **LEFT** and **RIGHT ARROWS**. Use the **UP** and **DOWN ARROWS** to highlight an option, and adjust it using the **LEFT** and **RIGHT ARROWS**.



Full Screen

Press the **RIGHT ARROW** to select **Full Screen**. This layout displays one main frame on the screen.

Tip: Remember to keep the remote control in TV mode to highlight and adjust options.

Using the Monitor's Features

PIP

Press the **RIGHT ARROW** to select **PIP**. This layout displays one main frame and one PIP frame on the screen.

Split Screen

Press the **RIGHT ARROW** to select **Split Screen**. This layout displays one main frame and one split frame on the screen.

POP3

Press the **RIGHT ARROW** to select **POP3**. This layout displays one main frame and one scanning frame that shows snapshots as it moves between three positions on the right side of the screen.

Note: **POP3** is only available when you have the **TV INPUTS** connected.

Grid

Press the **RIGHT ARROW** to select **Grid**. This layout displays one scanning frame that shows snapshots as it moves between nine positions around the screen.

Note: This option is available only on the **TV INPUT**.

Chapter 4

Installation and Setup

Installation Considerations

Protect Against Power Surges

- Connect all components before you plug any of their power cords into a power strip.
- Turn off the monitor and/or component before you connect or disconnect any cables.
- Make sure all antennas and cables are properly grounded. Refer to the *Safety Instructions* on page iii.
- To protect audio amplifiers of the monitor or connected audio equipment, ensure the volume is turned down before powering up the system.

Protect Components from Overheating

- Don't block ventilation holes on any of the components. Arrange the components so that air can circulate freely.
- Don't stack components.
- When you place components in a stand, make sure you allow adequate ventilation.
- If you connect an audio receiver or amplifier, place it on the top shelf so the heated air from it won't flow around other components.

Position Cable Properly to Avoid Audio Interference

- Insert each cable firmly into the designated jack.
- If you place components above the monitor, route all cables down the side of the back of the monitor instead of straight down the middle of the monitor.
- If your antenna uses 300-ohm twin lead antenna cables, do not coil the cables. Also, keep the twin lead cables away from audio/video cables.

Important Stand and Base Safety Information



Choose the location for your monitor carefully. Place the monitor on a stand or base that is of adequate size and strength to prevent the monitor from being accidentally tipped over, pushed off, or pulled off. This could cause personal injury and/or damage the monitor. Refer to the *Safety Instructions*.

Use Indirect Light

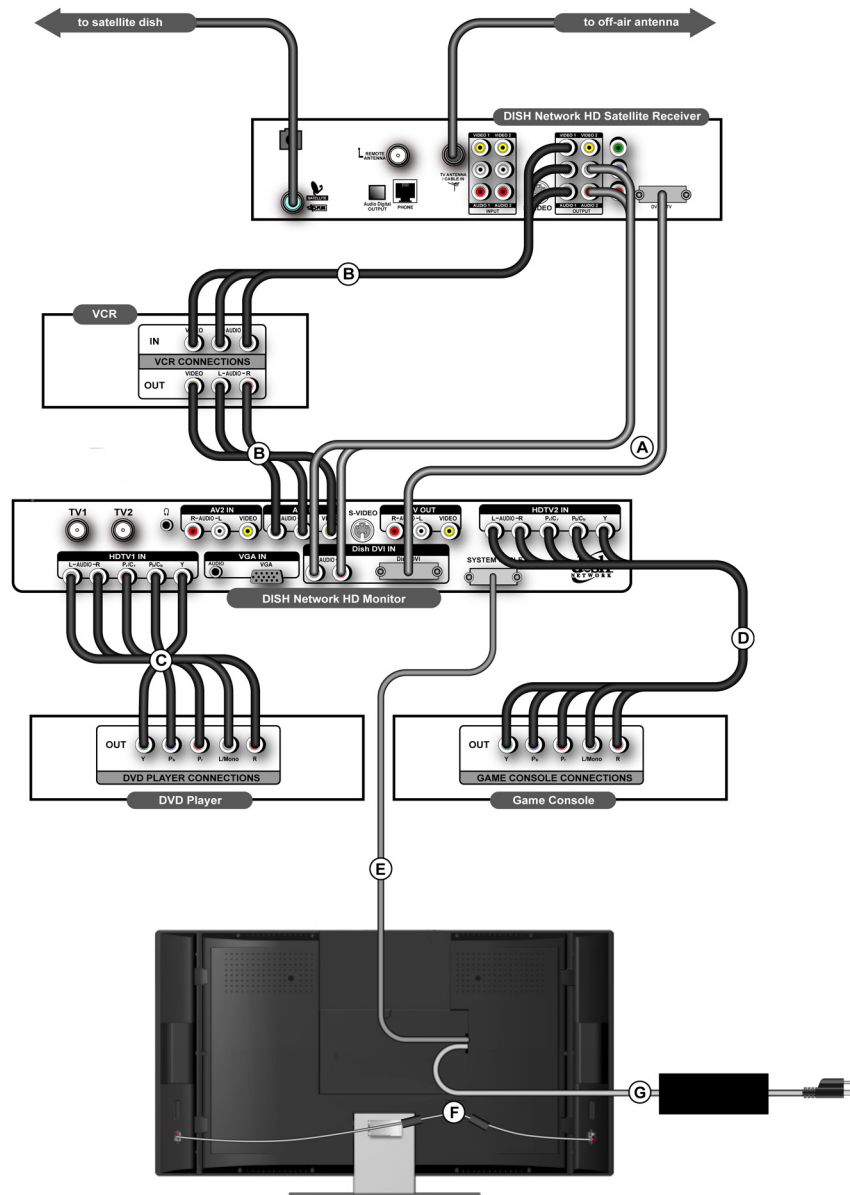
Don't place the monitor where sunlight or room lighting will be directed toward the screen. Use soft or indirect lighting.

Magnet Warning

Don't place large speakers or a subwoofer close to the monitor or the picture can become permanently distorted.

Connecting Your HDTV Monitor

Use the diagram below and the following instructions to connect your DISH Network HD monitor to your DISH Network satellite receiver and other optional devices. This is the recommended installation for best results, although other installations are also supported.



A

Connect Your DISH Network Satellite Receiver

1. Connect a DVI cable between the Media Box and DISH Network satellite receiver **DISH DVI** connectors.
2. Connect red and white RCA-type cables between the matching color RCA-type plugs on the Media Box audio inputs and DISH Network satellite receiver audio outputs.

B

Connect a VCR (Optional)

Follow these instructions to connect the monitor to a VCR. See your VCR User's Guide for VCR setup instructions.

1. Connect yellow, white, and red RCA-type cables between the matching color RCA-type plugs at **AV1 IN** or **AV2 IN** inputs on the Media Box and the VCR outputs.
2. Connect yellow, white, and red RCA-type cables between the matching color RCA-type plugs at the inputs on the VCR and the satellite TV receiver outputs.

Note: Optionally, instead of connecting video using yellow RCA-type connections, connect an S-Video cable at the input on the VCR and satellite TV receiver output.

C

D

Connect a DVD Player and/or Game Console (Optional)

Follow these instructions to connect the monitor to a DVD player or other device. See your DVD player or other device User's Guide for setup instructions.

1. Connect green, blue, and red component cables between the matching color connections at the **HDTV1** or **HDTV2** inputs on the Media Box and outputs on a DVD player or other device.
2. Connect white and red RCA-type cables between the matching color RCA-type plugs at the **HDTV1** or **HDTV2** inputs on the Media Box and the outputs on a DVD player or other device.

E

Connect the System Cable

Connect the system cable to the Media Box and to the monitor's **SYSTEM CABLE** connections.

Note: Before disconnecting the system cable, first make sure that the monitor is powered off.



Connect the Speaker Cables

Connect the speaker cables from the monitor to the speakers. Make sure that the black cylinders on the cables are closer to the monitor connection than the speaker connection as shown on page 28. Make sure each speaker wire is connected to the same color on both ends - red to red, black to black.

Note: If speaker wire clips are included on the back of the monitor, you may place the speaker wires through the clips for a cleaner looking installation.



Plug In Your Monitor to a Power Outlet

Connect the power supply's DC power cable to the monitor by plugging the special round connector to the Media Box's **POWER IN** connector on the back. The notch on the round connector when properly positioned will face you. Plug the other provided power cable into the power supply, and connect the power supply plug to a power strip.

Installing the Media Box Stand

The DISH Network LCD monitor is shipped with a stand to hold the Media Box upright. Complete the following instructions to mount the Media Box on the stand.

1. Turn off and unplug the monitor.
2. Disconnect all of the cables from the Media Box.
3. Remove the Media Box by pressing down and holding the locking clip at the bottom of the Media Box while gently pulling the Media Box up and then away from the monitor.
4. Turn the Media Box so that the DISH Network logo is right side up.
5. Place the stand on the right side of the Media Box.
6. Align the holes on the stand with the holes on the Media Box.
7. Insert and tighten the two screws included with the monitor.
8. Reconnect all of the cables as described in *Connecting Your HDTV Monitor* starting on page 28.

Removing the Speakers

The DISH Network LCD monitor is shipped with its speakers attached. If you want to detach the speakers, follow these instructions.

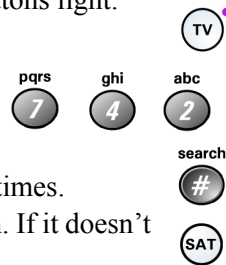
Note: Make sure the monitor's power is disconnected before attaching or detaching speaker connections.

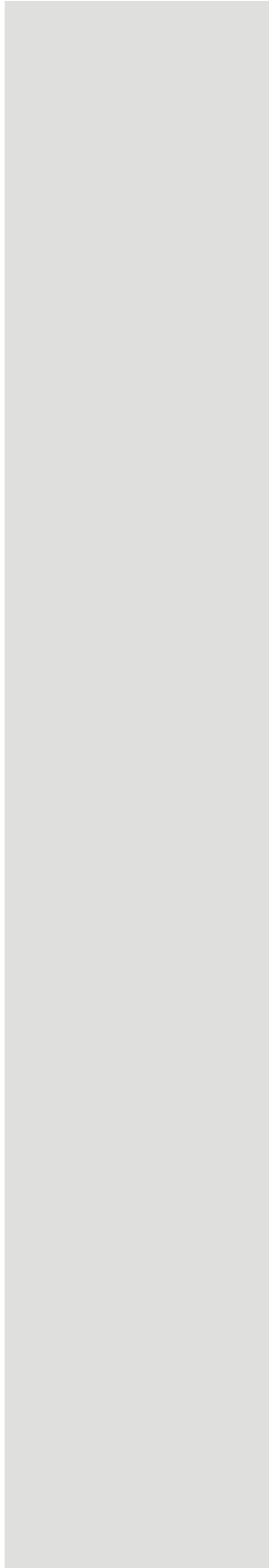
1. Turn off the monitor, and unplug it from power.
2. Detach both speaker cables from both the speaker and the monitor.
3. On each speaker, there are two plastic covers. Squeeze them on the top and bottom and carefully pull them off.
4. Behind each cover are four Phillips-head screws. Unscrew them.
Note: As you unscrew the speakers, make sure to hold the speaker to prevent it from being damaged in a fall.
5. Store the screws, covers, and speakers.

Restoring Your Remote Control's Factory Settings for Monitor Control

Your remote control provided with your DISH DVI-equipped DISH Network satellite receiver comes from the factory ready to work with your DISH Network HDTV monitor. However, the TV mode button can be programmed to operate other TVs (refer to your DISH Network satellite receiver User's Guide for more details). If the remote control has been programmed to operate a different TV, you can restore the remote control factory settings to control your DISH Network HDTV monitor by performing the following:

1. Press and hold the TV button until all four mode buttons light. Release the button.
2. Use the NUMBER PAD buttons to enter 7-4-2.
3. Press the POUND (#) button. If you entered the code correctly, the TV mode button will flash three times.
4. Press the SAT button and the monitor should turn on. If it doesn't turn on, repeat steps 1 through 4.





Chapter 5

Troubleshooting

Use these tables if you have problems using the system *before* calling the Customer Service Center. Many problems arise from misunderstandings of how the system works, especially when you are just becoming familiar with it. These tables cover many problems, usually with a simple solution for each one. To solve a particular problem, do the following:

1. Review the section in this *Guide* that relates to the problem.
2. If you cannot find a solution, then find the section in the following tables that relates to the problem.
 - Read the *What's Happening* column until you find the problem.
 - Try each of the suggested solutions in the *What to Do* column.
3. If the problem cannot be solved using the above steps, call the Customer Service Center at 1-800-333-DISH (3474).

Troubleshooting Tables

Monitor

What is Happening	What to Do
Monitor won't turn on.	<ul style="list-style-type: none"> Press the TV power button. Press the SAT button. Make sure the monitor is plugged in. Something might be wrong with your remote control. Press the POWER button on the front of the Media Box. If the monitor turns on, check and replace the remote control batteries. If the wall outlet is switched, make sure the switch is in the ON position. Check the wall receptacle (or extension cord) to make sure it is "live" by plugging in something else.
Can't see DISH Network programming.	<ul style="list-style-type: none"> Make sure your monitor is on. Monitor may be set for the wrong input. Press the SAT button on the remote control. Make sure the satellite receiver is on. Check your DISH DVI cable connections.
Remote won't control the monitor.	<ul style="list-style-type: none"> Remote control may need to be reprogrammed. See the instructions on page 31. Make sure the remote control is in TV mode. Check and replace the remote control batteries.
Front panel buttons don't work.	<ul style="list-style-type: none"> Unplug the monitor for two minutes and then plug it back in. Turn the monitor on and try again. Check the System Cable's connection between the Media Box and the monitor.
Monitor turns off while playing.	<ul style="list-style-type: none"> Sleep timer may have been activated. Go to page 13 for instructions. Unplug. Wait two minutes. Plug in again.
Monitor turns on unexpectedly.	<ul style="list-style-type: none"> You might have pressed a button on the remote control accidentally.
Blank screen.	<ul style="list-style-type: none"> Make sure the monitor is turned on. Make sure the component connected to the monitor is turned on. Try another channel or input. Check your cable connections.
No sound, picture OK.	<ul style="list-style-type: none"> Maybe the sound is muted. Try pressing the volume up button to restore sound. If using S-Video, Y-P_B-P_R, or DISH DVI connections, remember to also connect the component's left and right audio output jacks to the monitor's corresponding L and R Audio input jacks. The sound settings may not be set correctly. Go to page 16 for more information. Check the cable connectors. The picture window's audio is set to Headphone. Go to page 16 for more information.
Can't select certain channels or inputs.	<ul style="list-style-type: none"> Channel may be blocked or not approved in the Parental Controls menu. If using a VCR, check to make sure the TV/VCR button on the VCR is in the correct mode (press the TV/VCR button on your VCR).
Noisy stereo reception.	<ul style="list-style-type: none"> May be a weak station. Use Audio menu to choose mono sound. Adjust the off-air antenna to improve reception.
No picture, no sound, but monitor is on.	<ul style="list-style-type: none"> Make sure the component connected to the monitor is turned on. The Source option in the Options - TV Tuner - Search menu may be set to the wrong position. The channel or input might be blank — change channels or inputs. If you're watching your VCR and it's connected with coaxial cable to the CABLE/ANTENNA jack, tune the monitor to channel 3 or 4 (whichever channel is selected on the 3/4 switch on the back of your VCR). Also check to make sure the TV/VCR button on the VCR is in the correct mode (press the TV/VCR button on your VCR). Check cable connections.
Sound OK, but the picture is poor.	<ul style="list-style-type: none"> Check antenna connections. Make sure all of the cables are firmly connected to the jacks. Try adjusting the Sharpness option to improve weak signals.
Volume buttons not adjusting volume louder.	<ul style="list-style-type: none"> Check to make sure volume isn't limited by the Auto Volume feature (see page 17).
Picture not moving.	<ul style="list-style-type: none"> Check whether the Pause feature on your DISH Player-DVR or VCR is activated.

What is Happening	What to Do
Black box appears on the screen.	<ul style="list-style-type: none">• Closed-captioning might be enabled on either your monitor or your satellite receiver. Check Closed Caption in the Settings menu. Go to page 18 for more instructions. Check your satellite receiver's User's Guide.
Closed caption is not working	<ul style="list-style-type: none">• Closed Caption Mode may be set to the incorrect mode. Go to page 18 for more information.• Closed Captioning may not be available on this input.

V-Chip/Parental Controls

What is Happening	What to Do
Ratings limits don't work.	<ul style="list-style-type: none">• The V-Chip Parental Control is not available for DISH DVI, HDTV1, or HDTV2 inputs. Your DISH DVI-equipped DISH Network satellite receiver provides parental controls for the DISH DVI input. See the User's Guide that came with your satellite receiver.
Password lost or forgotten.	<ul style="list-style-type: none">• If you forget your password, enter 666888 as the password. The Change option will then be displayed, giving you an opportunity to change your password.
V-Chip blocks non-violent programs.	<ul style="list-style-type: none">• Maybe the movie was given an NR (Not Rated) status. After you block movie ratings, you must unlock NR separately in order to view movies with an NR rating.

Appendix

Limited Warranty



This Limited Warranty is a legal document. Keep it in a safe place. Remember to retain your original purchase receipt for warranty service! Any items returned without a copy of the original purchase receipt will be considered out of warranty.

What the Warranty Covers

This warranty extends only to the original user of this DISH Network Monitor. EchoStar Technologies Corporation ("EchoStar") warrants this DISH Network Monitor against defects in materials or workmanship as follows:

LABOR: For a period of one (1) year from the original date of purchase, if EchoStar determines in its sole judgment that the DISH Network Monitor is defective subject to the limitations of this warranty, EchoStar will arrange to pay an Authorized Service Center for DISH Network Monitors for the labor charges to repair your DISH Network Monitor. EchoStar warrants any such work done against defects in materials or workmanship for the remaining portion of the original warranty period.

PARTS: For a period of one (1) year from the original date of purchase, if EchoStar determines in its sole judgment that any part of a DISH Network Monitor is defective subject to the limitations of this warranty, EchoStar will arrange to pay an Authorized Service Center for DISH Network Monitors to supply new or re-manufactured parts in exchange for parts determined by EchoStar in its sole judgment to be defective subject to the limitations of this warranty. EchoStar warrants any such replacement parts against defects in materials or workmanship for the remaining part of the original warranty period. Note: "parts" means items included in this package. It does not include other parts purchased separately.

For Service

- Call 1-800-333-DISH (3474) and have your unit's date of purchase and model number ready.
- A Customer Service Representative will assist you.
- If the Representative determines that the monitor needs service, they will provide you with contact information in order to have your DISH Network Monitor serviced.
- The original purchase receipt which is evidence that the product is within the warranty period must be presented to obtain warranty service.
- If the monitor is wall mounted you will need to remove it from the wall in order for it to be serviced. Unless it was professionally installed by DISH Network in which case you will need to provide the work order document provided at the time of install showing that the unit was professionally installed.

What the Warranty Does Not Cover

- This warranty *does not cover* customer instruction. (Your Owner's Manual describes how to install, adjust, and operate your unit. Any additional information should be obtained from your retailer.)
- This warranty *does not cover* installation and related adjustments. If applicable, such installation will be warranted under a separately purchased installation agreement.

- This warranty *does not cover* physical setup or adjustment of any consumer electronic devices, remote control batteries, loss of use of the DISH Network Monitor, or unused programming charges due to malfunction.
- This warranty *does not cover* signal reception problems.
- This warranty does not cover cosmetic damage, damage due to lightning, electrical or telephone line surges, fire, flood, or other acts of Nature, accident, misuse, abuse, repair or alteration by other than an Authorized Service Center for DISH Network Monitors, use of accessories not included in this package, negligence, commercial or institutional use, or improper or neglected maintenance.
- This warranty *does not cover* batteries.
- This warranty *does not cover* damage from images burnt onto the screen.
- This warranty does not cover a unit that has been modified or incorporated into other products.
- This warranty *does not cover* a unit purchased, serviced or operated outside the continental United States of America.
- This warranty *does not cover* problems which do not involve defective materials or workmanship. Costs of such service calls are the sole responsibility of the user.
- This warranty *does not cover* equipment sold AS IS or WITH ALL FAULTS.
- This warranty *does not cover* shipping damage.
- This warranty *does not cover* a limited number of nonconforming pixels.

Legal Limitations

REPLACEMENT AND/OR REPAIR AS PROVIDED UNDER THIS WARRANTY IS YOUR EXCLUSIVE REMEDY. ECHOSTAR SHALL NOT BE HELD LIABLE FOR ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES FOR BREACH OF ANY EXPRESSED OR IMPLIED WARRANTY ON THIS DISH NETWORK MONITOR, NOR FOR ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES RESULTING FROM THE USE OF, OR INABILITY TO USE, THIS DISH NETWORK MONITOR. UNDER NO CIRCUMSTANCES SHALL ECHOSTAR'S LIABILITY, IF ANY, EXCEED THE PURCHASE PRICE PAID FOR THIS DISH NETWORK MONITOR. EXCEPT TO THE EXTENT PROHIBITED BY APPLICABLE LAW, ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE ON THIS SYSTEM IS LIMITED IN DURATION TO THE PERIOD OF THIS WARRANTY. ECHOSTAR RESERVES THE RIGHT TO REFUSE TO HONOR THIS WARRANTY IF ECHOSTAR DETERMINES ANY OF THE ABOVE EXCEPTIONS HAVE CAUSED THIS DISH NETWORK MONITOR NOT TO HAVE PERFORMED PROPERLY. THIS WARRANTY SHALL BE VOID IF ANY FACTORY-APPLIED IDENTIFICATION MARK, INCLUDING BUT NOT LIMITED TO SERIAL NUMBERS, HAS BEEN ALTERED OR REMOVED. THIS WARRANTY SHALL ALSO BE VOID IF THIS DISH NETWORK MONITOR HAS BEEN OPENED BY AN UNAUTHORIZED PERSON.

How State Law Relates to this Warranty

Some states do not allow the exclusion nor limitation of incidental or consequential damages, or limitations on how long an implied warranty lasts, so the above limitations or exclusions may not apply to you. This warranty gives you specific legal rights, and you also may have other rights that vary from state to state.

Equipment Modifications



There are no customer repairable parts inside. Any attempts to open or repair the Monitor will void your warranty. There is risk of electrical shock, which may result in damage to the equipment, or personal injury or death.

FCC Compliance



The following text is extracted from Federal Communications Commission (FCC) regulations, as of the publication date of this Guide. Contact the FCC (see following) or your library for the complete text of the regulations.

Radio Interference

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

- This device may not cause harmful interference, and
- This device must accept any interference received, including interference that may cause undesired operation.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.
- If none of the above remedies stops the radio interference, you should contact a licensed radio/television technician, your satellite dealer, or call the Customer Service Center at 1-800-333-3474, for assistance.

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WIRELESS REMOTE CONTROL

This device complies with Part 15 of FCC Rules. Operation is subject to the following two conditions:

- (1) this device may not cause harmful interference, and
- (2) this device must accept any interference received, including interference that may cause undesired operation.

Changes or modifications to this device may void your authority to operate this equipment.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the use is encouraged to try to correct the interference by one or more of the following measures:

- Re-orient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

SAFETY INSTRUCTIONS

You *must* keep safety in mind while using this device. Keep these and any other instructions for future reference.

INSTALLATION

Observe Warnings: Carefully follow all warnings on the device and in the operating instructions.

Heat: DO NOT place the device near heat sources such as radiators, stoves, heat registers, or other appliances that produce heat.

CARE AND USE

Cleaning: DO NOT use liquid, abrasive, solvent, or aerosol cleaners. Use a damp cloth for cleaning.

When Not in Use: Remove the batteries if this device is to be left unattended or unused for a long period of time.



Refer servicing to qualified personnel when a solid object or liquid has fallen onto or into the device.



DO NOT attempt to service this device. Refer all servicing to qualified personnel. Opening covers other than the battery cover will void the warranty.

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REMOTE CONTROL BASICS


This remote control gives you easy access to all the features of a DISH Network satellite TV receiver. You can set up the remote to control the satellite TV receiver and up to three other devices. These devices can be a TV, a VCR or DVD player, and a third device.

MODELS SUPPORTED BY THIS GUIDE


This user's guide supports the following remote control models as shown on the label on the back of the remote:

- 5.0 - Infrared (IR) only. For use with appropriate IR-controlled DISH Network receivers.
- 6.0 - Infrared/Ultra-High Frequency Pro (IR/UHF Pro). For use with appropriate UHF Pro-controlled DISH Network receivers. The 6.0 remote can be converted to one of three different remote types used on a DISH Player-DVR 522 receiver:




With the blue 2 UHF Pro key installed, this remote will operate the  UHF Pro side of the DISH Player-DVR 522 receiver. The remote comes with this key already installed.




With the green 1 key installed (no UHF Pro marking), this remote will operate the  IR side of the DISH Player-DVR 522 receiver. This remote will look and work exactly like a 5.0 IR remote. See instructions in *Converting the 6.0 Remote*.



With the green 1 UHF Pro key installed, this remote will operate the  side of the DISH Player-DVR 522 receiver from a distance using UHF Pro. See instructions in *Converting the 6.0 Remote*.



If you set up your DISH Player-DVR 522 to operate the  side using UHF Pro, the two UHF Pro remotes for this receiver will interfere with each other when operated at the same time. This may prevent the remotes from operating the receiver momentarily.

- 8.0 - Infrared/Ultra-High Frequency Pro (IR/UHF Pro). For use with appropriate UHF Pro-controlled DISH Network receivers.

INSTALLING BATTERIES

The remote control requires AAA batteries. When you replace old batteries, you should replace *all* of the batteries. Use batteries of the same kind, *for example*, alkaline or carbon zinc, and *don't* mix batteries of different kinds. Alkaline batteries last longer.

1. Press down on the battery cover and slide the cover off.
2. If you are replacing batteries, take out all of the old batteries.
3. Put the new batteries in. Make sure you match the plus (“+”) ends with the plus markings on the battery case.
4. Slide the cover back into place.



UHF AND IR SIGNALS

The remote control may use either UHF radio signals or IR light signals to control the receiver but uses only IR signals to control other devices.

- IR signals travel only short distances (up to 40 feet), and cannot go through walls or other solid objects. You must point the remote control right at the device you want to control, with no objects to block the signal path.
- UHF signals travel long distances (up to 200 feet) and can go through walls and other solid objects. Because UHF signals travel so far, the receiver may respond to signals from other nearby remote controls. To handle this problem, you may want to change the remote and receiver addresses. See *Setting Up to Control the Satellite Receiver* on page 4.
- Confirm that the UHF remote antenna is attached to the receiver's back panel UHF REMOTE ANTENNA input so you can use your UHF Pro remote.

CONVERTING THE 6.0 REMOTE CONTROL

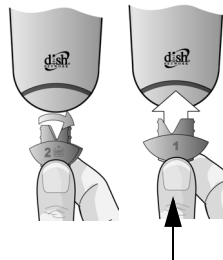
By replacing the key at the bottom of the 6.0 remote, this remote can be converted to look and work like a 5.0 IR or to operate like a second UHF Pro remote to control the **1** side of the DISH Player-DVR 522 receiver. The instructions that follow show you how to replace this key. After replacing the key, follow the instructions in *Setting Up to Control the Satellite Receiver*.

Note: If you do not need to replace the key, you do not need to complete the instructions that follow. Go to *Setting Up to Control the Satellite Receiver*.


1. Slide the battery cover off.
2. Insert your thumbnail in the seam between the remote control and the blue 2 key to separate the key from the remote control.
3. Grasp the key at the bottom and pull down firmly to remove.

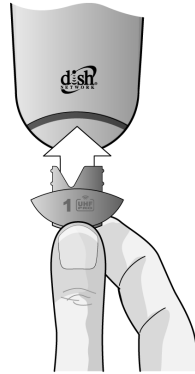


4. If you are converting the remote to look and work like a 5.0 IR remote, then turn the removed key over with the green 1 side up (this key should not have a UHF Pro marking). Reinstall the key with the green side showing. Make sure the key snaps in place.




Note: Key has no UHF Pro marking.

5. If you are converting the remote to operate like a second UHF Pro remote to control the  side of the DISH Player-DVR 522 receiver, then get the green 1 UHF Pro key provided separately. Install this key in the remote with the UHF Pro marking showing.



Note: Key has the UHF Pro marking.




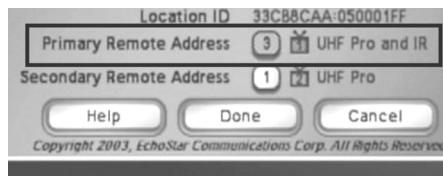
If you set up your DISH Player-DVR 522 to operate the  side using UHF Pro, the two UHF Pro remotes for this receiver will interfere with each other when operated at the same time. This may prevent the remotes from operating the receiver momentarily.

6. If you have not already installed batteries, install them now. See *Installing Batteries* for further details.
7. Slide the battery cover back into place.

SETTING UP TO CONTROL THE SATELLITE RECEIVER


The remote and the receiver must be set up on the same address so that the remote can control the receiver. When you get the remote, it's already set up to control the receiver on address 1. However, your receiver may be set to a different address or, in the case of the DISH Player-DVR 522, may need some additional setup. To set up the remote and receiver to work together on the same address, use the following instructions.

1. *For DISH Player-DVR 522 receivers only:* If you are using a 6.0 remote control with the green 1 UHF Pro key installed, perform the steps a. through e. below. If not, then go to step 2.
 - a. Open the **TV1 UHF Pro Setup** screen by pressing MENU-6-1-6 on the remote control.
 - b. Select **Enable** from the **TV1 UHF Pro Setup** screen.
 - c. Press the SYS INFO button on the front panel to open the **System Information** screen.
 - d. Move the highlight to the address for the **Primary Remote Address** as shown below. This is important - if you do not do this, your remote will change the receiver's **Secondary Remote Address** and cause your Remote Control 1 to control the  side of your receiver.



Note: Highlight the **Primary Remote Address** if you are using a 6.0 remote with a green 1 UHF Pro key.



Do not do this step if you are using 6.0 Remote with blue 2 key. This will cause your Remote Control 2 to control  side of your receiver.

- e. Go to step 3 below.
2. Open the **System Information** screen. Consult your receiver user's guide for instructions on how to open this screen without using the remote control. For most receiver models which use this remote, press the SYS INFO button on the receiver front panel. The **System Information** screen will show either one **Remote Address**, or it may show a **Primary Remote Address** and a **Secondary Remote Address**.

Note: On the DISH Player-DVR 522, leave **Done** highlighted.

3. Press and hold the SAT mode button about three seconds, until all the mode buttons light up, and then let go of the SAT button. The SAT mode button will blink.



4. Use the number buttons to enter any number from 1 to 16. The **SAT** mode button goes out after you enter each digit, and then lights up again.

Write down the number you entered: _____



5. Press the **POUND (#)** button.
If you entered the address correctly, the **SAT** mode button will flash three times.



6. Press the **RECORD** button. If you are using a 6.0 remote with the green 1 key (no UHF Pro marking), you must point the remote control at the receiver while pressing the **RECORD** button.



7. Make sure the **System Information** screen shows the correct remote address as follows:

- If only one **Remote Address** is shown, make sure this address matches the number you entered in step 5.
- If you are using 6.0 remote with the green 1 UHF Pro key, make sure that the **Primary Remote Address** shows  **UHF Pro and IR** and that this address matches the number you entered in step 4.
- If you are using 6.0 remote with the green 1 key (with no UHF Pro marking), make sure that the **Primary Remote Address** shows  **IR** and that this address matches the number you entered in step 4.
- If you are using 6.0 remote with the blue 2 UHF Pro key, make sure that the **Secondary Remote Address** matches the number you entered in step 4.

8. Close the **System Information** screen. On most receivers, this is done by selecting the **Done** button. See your receiver user's guide for more information.

CHECKING THE REMOTE ADDRESS

To read out the remote control address setting:

1. Press and hold the **SAT** mode button for three seconds until all mode buttons light. Then, let go.
2. Press the **POUND (#)** button twice while watching the **SAT** mode button.
3. Count the number of times the **SAT** mode button flashes. This number is the remote address. For example, if the **SAT** mode button flashes 6 times, this indicates the remote address is set to 6.



SETTING UP TO CONTROL OTHER DEVICES

To use the remote to control other devices (such as a TV, VCR, DVD player, tuner, or amplifier), you must first program it to control these other devices. You can do this by either following the instructions in *Setting Up Using Device Code Tables* on page 9, or the *Setting Up Using Device Codes Scan* procedure described on page 10.

COMBINATION DEVICES

If you are programming the remote to control a combination device, such as a TV/VCR or a TV/DVD, program the remote control in one mode, and then repeat the procedure in the other mode. For example, to program the remote to control a TV/VCR using code 748, follow the instructions to program the remote to control the TV using code 748, and then repeat the instructions for the VCR using the same code.

LIMITED MODE

You can program your remote control in Limited Mode to keep from accidentally changing the channel on your TV or VCR. When you use the remote to control your TV in Limited Mode, you will only be able to use the **POWER**, **MUTE**, and **VOLUME** buttons to control your TV. Also, when you use the remote to control your VCR in Limited Mode, you will only be able to use the **POWER** and **VCR** function buttons. The section *Setting Up Using Device Codes Tables* has a step that tells the remote control to go into Limited Mode.

Note: Limited Mode can not be used with audio amplifiers.

SETTING UP USING DEVICE CODE TABLES

You can set up the remote to control other devices using the device codes listed on page 29.

1. Use the device's buttons or its remote control to turn on the device.
2. Find the brand name of the device in the tables starting on page 29.

If the brand isn't listed, see *Setting Up Using Device Codes Scan* on page 10.

3. Press and hold the mode button for the device you want the remote to control, for about three seconds. When all the other mode buttons light up, let go of the mode button - that mode button should now be flashing.

For example, hold the TV mode button for a TV until all of the other mode buttons light up. When you let go, the TV mode light will flash.

4. *Only for the AUX mode*, Use a number button to enter 0 for a second TV, or 1 for a second VCR or DVD player, or 2 for a tuner or amplifier.

5. Use the number buttons to enter one of the device codes from the table.

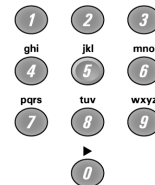
6. Only for Limited Mode, Press 1.

Note: Skip this step if you do not want to use Limited Mode.

7. Press the POUND (#) button. If you entered the code correctly, the mode button flashes three times.

8. Press the blank POWER button to test if the code works for the device. If it does, the device should turn off.

9. Turn the device back on and try some other buttons to make sure they work. Sometimes, the blank POWER button works when other buttons don't. If the code works for other buttons, *stop here*.



10. If the code you entered *doesn't* work, do steps 3 through 9 *again* with another device code from the tables.

11. If you cannot find a code that works, try *Setting Up Using Device Code Scan*.

SETTING UP USING DEVICE CODE SCAN

If the code for your device is not listed in the tables on starting page 29, use this procedure to scan the remote control's memory for the device code. Here's what to do:

1. Use the device's buttons or its remote control to turn the device on.
2. Press and hold the mode button for the device you want the remote to control, for about three seconds. When all the other mode buttons light up, let go of the mode button - that mode button should now be flashing.

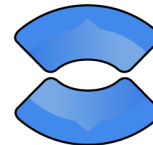
For example, hold the TV mode button for a TV until all of the other mode buttons light. When you let go, the TV mode light will flash.

3. *Only for the AUX mode*, use the number buttons to enter 0 for a second TV, 1 for a second VCR or DVD player, or 2 for a tuner or amplifier. Then press the STAR (*) button.
4. Press the blank POWER button.



5. Press the up or down arrow button until the device turns off. You will have to do this repeatedly to scan through all codes.

Note: The mode button for the device will flash rapidly eight times when you've scanned all the codes for that device.



6. If the remote reaches the correct code, the device turns off. When this happens, press the POUND (#) button to store the code in the remote.



7. Press the blank **POWER** button to turn the device back on.
8. Try some other buttons to make sure they work. Sometimes, the blank **POWER** button works when other buttons don't.



CHECKING THE DEVICE CODES

You can find out what device code you've set for each remote control mode.

1. Press and hold the mode button for the device you want the remote to control, for about three seconds. When all the other mode buttons light up, let go of the mode button - that mode button should now be flashing.
For example, hold the TV mode button for a TV until all of the other mode buttons light. When you let go, the TV mode light will flash.
2. Press the **POUND (#)** button *twice*. The mode button flashes the number for each digit of the device code, with a pause between the groups of flashes. A quick flash is for zero. For example, if the code is 570, the mode button flashes five times, pauses, flashes seven times, pauses, and flashes once quickly.



For AUX mode, the first group of flashes tells you what the **AUX** mode controls. A quick flash (zero) before the three-digit code is for a TV; one regular flash is for a VCR or DVD player; and two flashes is for a tuner or amplifier. For example, if the TV code is 570, the **AUX** mode button flashes once quickly, pauses, flashes five times, pauses, flashes seven times, pauses, and flashes once quickly.

SWITCHING BETWEEN TV AND DEVICE VOLUME CONTROL

When you set up the remote to control a TV, the **MUTE** and **VOLUME** buttons control the TV volume. However, if you want to use the **AUX** mode to control a tuner or amplifier and the device has a volume setting, you can set up the remote to control the device's volume instead of the TV volume.

To set the remote to control the device's volume:

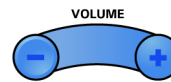
1. Press and hold the **AUX** mode button for three seconds, and then let go of it. The **AUX** mode button will blink.



2. Press the **POUND (#)** button.



3. Press the plus (+) side of the **VOLUME** button.



4. Press the **0** number button.



5. Press the **POUND (#)** button.

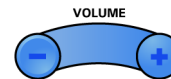
The **AUX** mode button flashes three times.



6. Press the **SAT** mode button.



7. Press the plus (+) and minus (-) sides of the **VOLUME** button. The device's volume changes and the **AUX** mode button lights instead of the **TV** mode button.

**To set the remote back to control the TV volume:**

1. Press and hold the **TV** mode button for three seconds, and then let go of it. The **TV** mode button will blink.



2. Press the **POUND (#)** button.



3. Press the plus (+) side of the **VOLUME** button.



4. Press the **0** number button.



5. Press the **POUND (#)** button.

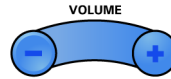
The **TV** mode button flashes three times.



6. Press the **SAT** mode button.



7. Press the plus (+) and minus (-) sides of the **VOLUME** button. The TV's volume changes and the TV mode button lights instead of the **AUX** mode button.



REMOTE CONTROL OPERATION

OPERATING MODES

You can set the remote to four different modes to control the receiver or other devices. You may need to change the remote address to operate the receiver. See *Setting Up to Control the Receiver* on page 4. You must set up the remote to control a device like a TV, VCR, or DVD player. See *Setting Up to Control Other Devices* on page 8.

Use the remote control's mode buttons, **SAT** (satellite receiver), **TV** (for a TV), **VCR** (for a VCR or a DVD player), and **AUX** ("auxiliary," for a second TV, a second VCR, a tuner, or an audio amplifier) to set the remote to the right mode for the device.

To change the mode, press the button for the device you want the remote to control. The mode button lights for two seconds to show you've set the remote to that mode.



CONTROLLING THE SATELLITE RECEIVER



SAT MODE BUTTON

Press this button to set the remote to **SAT** ("satellite") mode to control the receiver. The **SAT** mode button's back light stays lit for about two seconds to show you've set the remote to **SAT** mode. Make sure you keep the remote in **SAT** mode to use the following buttons.

Note: Your satellite receiver may not provide all of the functions described as follows. Consult your receiver user's guide for the features your receiver provides.

TV/VIDEO

**TV/VIDEO BUTTON**

If you connect the receiver with its back panel TV ANTENNA/CABLE IN and TV SET OUT ports, use this button to switch the receiver between the satellite signal (connect it to the SATELLITE IN port) and another video signal like a cable or broadcast TV antenna input (connect it to the receiver's TV ANTENNA/CABLE IN input).

Note: Your remote control will either have the TV/VIDEO button or the SD/HD INPUT button, but not both.

SD/HD

**SD/HD INPUT BUTTON**

Press the SD/HD INPUT button to toggle between HD Output mode, where only the HD video outputs are enabled, and SD Output mode, where only the SD video outputs are enabled. Consult your receiver user's guide for other uses of this button.

Note: Your remote control will either have the TV/VIDEO button or the SD/HD INPUT button, but not both.

POWER

**POWER BUTTONS**

Press the blank POWER button to turn the receiver on or off.

Press the TV POWER button to turn your TV off and on.

Note: You must set up the remote to control the TV for the TV POWER button to work. See *Setting Up to Control Other Devices* on page 8.

VOLUME

**VOLUME BUTTON**

Press this button to raise (+) or lower (-) the TV sound volume.

Note: You must set up the remote to control the TV for the VOLUME button to work. See *Setting Up to Control Other Devices* on page 8.



MUTE BUTTON

Press this button to turn the TV sound on or off.

Note: You must set up the remote to control the TV for the MUTE button to work. See *Setting Up to Control Other Devices* on page 8.



MENU BUTTON

Press this button to open the **Main Menu**.



PAGE UP AND PAGE DOWN BUTTONS

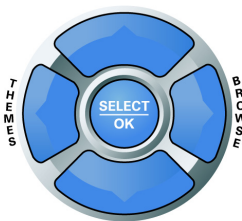
Press the PAGE UP button or the PAGE DOWN button to scan, page by page, through the **Program Guide**, a **Themes** list, a **Favorite List**, an **Event Timers** list, or a list of channels.

Note: An “event” is any satellite program.



GUIDE BUTTON

Press this button to open the **Program Guide**. When you have the **Program Guide** open, press this button to change between your **Favorite Lists**.



ARROW BUTTONS

- Change channels - Press the UP or DOWN arrow button to change channels.
- Open the **Browse Banner** - Press the RIGHT arrow button.

- Show **Themes** - Press the LEFT arrow button.
- Move around within the **Program Guide**, menus, and **Browse Banner** - Press the UP, DOWN, LEFT, and RIGHT arrow buttons.



SELECT BUTTON

Press this button to select the option you highlight in a menu.

Note: The SELECT button may also be labeled SELECT/OK.



RECALL BUTTON

Press this button to go back to the last receiver channel you watched. Press it again to switch between the last two receiver channels you watched.



INFO BUTTON

- Program information - Press the INFO button for more information when you watch a program, or when you have the **Program Guide**, **Browse Banner**, or **Themes** list open.
- Help - Press the INFO button to see help information when a **Help** button appears in a menu.



VIEW TV BUTTON

- When you watch a program, press this button to briefly display the **Program Banner**.
- When you use a menu, press this button to cancel and go back to watch a program.



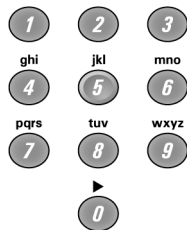
CANCEL BUTTON

Press this button to cancel and go back to the previous menu or to watch a program.



DISH BUTTON

Press the dish button to go to **DISH Home Interactive TV** for receivers that support this feature.



NUMBER BUTTONS

- Change the channel - Use the **NUMBER** buttons to enter a channel number to change the channel. If you have the **Program Guide** open, use the **NUMBER** buttons to jump to the channel listing on the **Program Guide**.
- Scroll through the **Program Guide** by time - When you have the **Program Guide** open, enter a number of hours using these buttons, and then press the **RIGHT** or **LEFT** arrow button to skip the **Program Guide** forward or backward that many hours.
Enter menu options - For an option with a number, you can press the number for that option *instead* of highlighting and selecting the option.
- Enter numbers in a blank - Highlight the place where you need to enter the number. Press a number button(s) (or, you can use the **UP/DOWN** arrow buttons to enter the number).
- Search - Use the letters above the **NUMBER** buttons while in the **Search** menu. For example, when looking for the channel and times to watch *Rudy Fremmel Presents*, you press **7** three times for an **R**, **8** two times for a **U**, **3** one time for a **D**, and **9** three times for a **Y** to spell the word "Rudy" (see your receiver's *User Guide* for more information).



STAR BUTTON

Press the STAR button to back space while using the search function of your receiver.

Note: Your remote control will either have the STAR button or the FORMAT/STAR button, but not both.

◀/FORMAT



FORMAT/STAR BUTTON

Press the FORMAT/STAR button to toggle through the available display modes (Normal, Zoom) on widescreen displays.

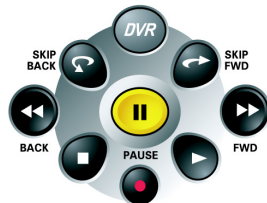
Note: Your remote control will either have the STAR button or the FORMAT/STAR button, but not both.

search



POUND (#) BUTTON

Press the POUND button to display the **Search** screen. Also, you use this button in several procedures in this *User Guide*.



DVR BUTTONS

The following button descriptions mainly apply for remote controls used with DISH Player-DVR receivers. For a description of these buttons when controlling a VCR or DVD player, see *Control a VCR (or a Second VCR or a DVD Player)* on page 25.



DVR BUTTON

Press the DVR button to open the DVR Events menu, which shows all of the DVR Events recorded on the receiver.



PLAY BUTTON

Press the PLAY button to play back a recorded event. Also, press this button to switch from pause, fast forward, or back to normal play back.



STOP BUTTON

Press the STOP button to stop recording a program or to stop playing a recorded program.



PAUSE BUTTON

Press the PAUSE button to pause a program. Press this button again to go back to watching the program.



FWD BUTTON

Press the FWD ("forward") button to:

- Move ahead through a program four times as fast as normal play. Press this button a second time to move ahead at 15 times, a third time to move ahead at 60 times, and a fourth time to move ahead at 300 times as fast as normal play.
- Move ahead through the program in slow motion. To use this feature, press the PAUSE button and then press the FWD button. Each time you press the FWD button, the program advances faster until it reaches normal speed. If you continue to press the button, the program will advance as described in the previous paragraph.



SKIP FWD BUTTON

Press the SKIP FWD button to:

- Skip ahead about 30 seconds in a program. Press this button again to skip ahead again.
- Skip ahead one frame at a time. To use the frame advance feature, press the **PAUSE** button and then press the **SKIP FWD** button.
- Skip ahead one day at a time in the EPG.



BACK BUTTON

Press the BACK button to:

- Move back through a program four times as fast as normal play. Press this button a second time to move back at 15 times, a third time to move back at 60 times, and a fourth time to move back at 300 times as fast as normal play.
- Move back through the program in slow motion. To use this feature, press the **PAUSE** button and then press the **BACK** button. Each time you press the **BACK** button, the program reverses faster until it reaches normal speed. If you continue to press the button, the program will reverse as described in the previous paragraph.



SKIP BACK BUTTON

Press the SKIP BACK button to:

- Skip back about ten seconds in a program. Press this button again to skip back again.
- Skip back a few frames at a time. To skip back through a few frames, press the **PAUSE** button and then press the **SKIP BACK** button.
- Skip back one day at a time in the Electronic Program Guide (EPG).

Note: The skip back button will not skip back the EPG beyond the current date and time.



RECORD BUTTON

Press the RECORD button to record a program.

Note: You also use this button if you change the remote control address. See *Setting Up to Control the Satellite Receiver* on page 5.



PICTURE IN PICTURE (PIP)

Press the PIP button to open the **PIP** window. To make the **PIP** window larger, press this button again. Press the button a third time to close the **PIP** window.



POSITION BUTTON

Press the POSITION button to move the **PIP** window to different positions on the TV screen.



SWAP BUTTON

Press the SWAP button to swap the video in the main display with the video in the **PIP** window.



RECOVER BUTTON

Use the RECOVER button if you accidentally change the channel or video input on your TV and cannot get the picture back from your satellite receiver. When you press the RECOVER button as described in the following section, the remote control sends commands to your TV to change channels or video inputs to try to get you back to watching satellite programming.

Note: RECOVER only works if the remote control has been set up to control the TV and/or VCR, if connected (see *Setting Up to Control Other Devices* on page 8).

USING THE RECOVER BUTTON

Use this procedure only if you have accidentally changed the TV channel or video input. It does not recover lost satellite signal.

Note: RECOVER will first try to tune your TV to channel 3, then channel 4, and then other video inputs with each press of the RECOVER button. You may need to press the RECOVER button up to 30 times to recover your satellite TV video.

1. Press and hold the RECOVER button until all four mode buttons light, and then let go of the button. The SAT mode button flashes twice and then all four mode buttons flash three times.
2. Press the RECOVER button. Wait for the TV mode button to flash once and then all four mode buttons to flash once.
3. If you see the **System Info** screen, press the SELECT button to close the screen. You have recovered your satellite video.
4. If you do not see the **System Info** screen, repeat steps 2 and 3 until you have recovered your satellite video.

Note: Press any remote control button other than the RECOVER button to end this procedure.

PROGRAMMING THE RECOVER BUTTON TO TUNE THE TV TO A SPECIFIC CHANNEL

The RECOVER button can be programmed to tune your TV back to the TV channel you use to watch satellite programming.

1. Program your remote to control your TV using the instructions in *Setting Up to Control Other Devices* on page 8.
2. Press and hold the TV mode button until all the other mode buttons light up, and then let go of the button. The TV mode button flashes.
3. Press the STAR (*) button.
4. Enter the three digits of your channel number. For example, if your remote TV is set to channel 60, enter 0-6-0.
5. Press the POUND (#) button. The TV mode button flashes three times.

CONTROLLING A TV (OR A SECOND TV)

Only the buttons described here control a TV. Some of the buttons described here may *not* control your TV. See your TV user's manual for information about the TV's features.

You can set up the remote to control a second TV in AUX mode, the same way it controls the first TV in TV mode. See *Setting Up to Control Other Devices* on page 8.

TV MODE BUTTON

You must first set up the remote to control the TV. See *Setting Up to Control Other Devices* on page 8. Then press the TV mode button to set the remote to TV mode. The TV mode button will stay lit for two seconds to show you've set the remote to TV mode. Make sure you keep the remote in TV mode to use the buttons described in this section.

TV/VIDEO OR SD/HD INPUT BUTTON

If the TV has video input options, use this button to switch the TV video input.

Note: Your remote control will either have the TV/VIDEO button or the SD/HD INPUT button, but not both.

POWER BUTTONS

Press *either* POWER button to turn the TV on or off.

Note: If you set up the remote to control one TV in TV mode and an additional TV in AUX mode, pressing the TV POWER button controls *only* the TV you set up in TV mode.



MUTE



MUTE BUTTON

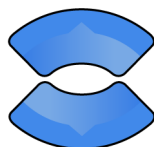
Press this button to turn the TV sound on or off.

VOLUME



VOLUME BUTTON

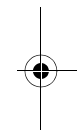
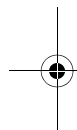
Press this button to raise (+) or lower (-) the TV sound volume.



UP/DOWN ARROW BUTTONS

Use these buttons to change channels on the TV.

Note: These buttons do not change the channels on the TV if the remote control is in Limited Mode.



SELECT BUTTON

The SELECT button works as the ENTER button for a TV.

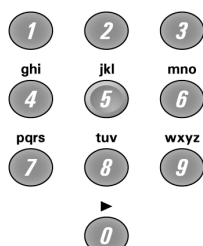
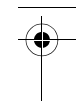
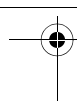


RECALL

RECALL BUTTON

Press this button to go back to the last TV channel you watched. Press it again to switch between the last two TV channels you watched.





NUMBER BUTTONS

Use these buttons to directly enter a different channel.

Note: These buttons do not change the channels on the TV if the remote control is in Limited Mode.

CONTROLLING A VCR (OR A SECOND VCR OR A DVD PLAYER)

Only the buttons described here control a VCR or DVD player. Some of the buttons we tell you about here may *not* control your VCR. See your VCR or DVD player user's manual for information about the features.

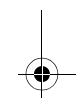
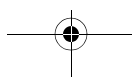
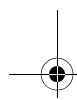
You can set up the remote to control a second VCR or DVD player in AUX mode, the *same* way it controls the first VCR or DVD player in VCR mode. See *Setting Up to Control Other Devices* on page 8.



VCR MODE BUTTON

You must first set up the remote to control the VCR or DVD player. See *Setting Up to Control Other Devices* on page 8. Then press the VCR mode button to set the remote to VCR mode. The VCR mode button will stay lit for two seconds to show you've set the remote to VCR mode. Make sure you keep the remote in VCR mode to use the buttons we tell you about here.

You must put the remote in VCR mode to set it up to control a DVD player. Put the remote in VCR mode to use it to control a DVD player.





TV/VIDEO OR SD/HD INPUT BUTTON

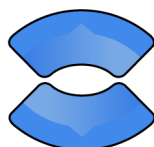
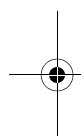
Use this button to switch the VCR between its TV mode and its VCR mode (see your VCR user's manual for information).

Note: Your remote control will either have the TV/VIDEO button or the SD/HD INPUT button, but not both.



POWER BUTTON

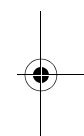
Press the blank POWER button to turn the VCR on or off. Press the TV POWER button to turn the TV on or off.



UP/DOWN ARROW BUTTONS

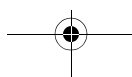
Use these buttons to change channels on the VCR.

Note: If you are using the remote control in Limited Mode, the TV will not change channels.



VIEW TV BUTTON

For VCR/DVD combinations only: Press the VIEW TV button to switch between VCR and DVD functions.





VCR BUTTONS

Press the **PLAY** button to play a videotape or DVD.



Press the **STOP** button to stop playing or recording on a videotape. Press the **STOP** button to stop playing a DVD.



Press the **PAUSE** button to pause a videotape or DVD. Press this button or the **PLAY** button to play the tape or DVD.



Press the **FWD** (“forward”) button to forward a videotape or DVD.



Press the **BACK** button to rewind a videotape or reverse a DVD.



Press the **RECORD** button to record on a videotape.



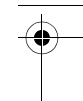
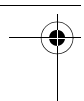
CONTROLLING A TUNER OR AMPLIFIER

Only the buttons described here control a tuner or amplifier. Some of the buttons described here may not control your tuner or amplifier. See the device user’s manual for information.



AUX MODE BUTTON

You must first set up the remote to control the device. See *Setting Up to Control Other Devices* on page 8. Then press the **AUX** mode button to set the remote to **AUX** mode. The **AUX** mode button will stay lit for two seconds to show you’ve set the remote to **AUX** mode. Make sure to keep the remote in **AUX** mode to use the following buttons.



POWER BUTTON

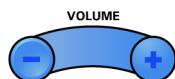
Press the blank POWER button to turn the tuner or amplifier on or off.
Press the TV POWER button to turn the TV on or off.



MUTE BUTTON

Press this button to turn on or off the sound.

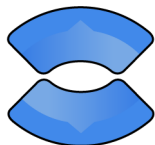
Note: Program the remote to control the device's volume by following the instructions on page 11.



VOLUME BUTTON

Press this button to raise (+) or lower (-) the sound volume.

Note: Program the remote to control the device's volume by following the instructions on page 11.



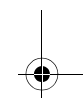
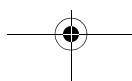
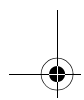
UP/DOWN ARROW BUTTONS

Use these buttons to change channels on the tuner or amplifier.



SELECT BUTTON

This button works as the INPUT SELECT button for the tuner or amplifier.



DEVICE CODES

These tables contain the manufacturer codes for programming the remote to control your TV, a VCR, DVD player, or audio amplifier. Every attempt has been made to include all codes. If your device brand is not listed or if the codes do not work, the remote may not control your device. In some cases codes may operate some but not all buttons shown in this guide.

TV CODES

Programming in AUX mode:
Press 0 before entering the TV code.

TV	Codes
A Mark	670
Action	662
Admiral	514, 521, 605, 668, 669, 675
Aiko	727
Aiwa	751
Akai	570, 573, 659, 660,
A-Mark	620
Amtron	657
Anam National	509, 541, 620, 651, 657, 661, 663, 698
AOC	505, 506, 519, 520, 573, 620, 627, 652, 653, 654, 659, 664, 665, 670, 672
Apex	743, 744, 745
Archer	620
Audiovox	620, 657, 662, 672
Bell & Howell	590, 669, 675
Broksonic	752, 659, 661, 748
Capehart	519, 627
Citizen	506, 516, 523, 524, 525, 526, 590, 652, 654, 657, 658, 680, 727
Classic	659

TV	Codes
Colortyme	573, 627, 652, 654, 660, 667, 668, 671, 674, 679, 681
Contec/Cony	541, 655, 657, 661, 662, 726
Craig	536, 541, 657, 661, 662, 666, 667, 694
Crown	526, 536, 657, 666, 670
Curtis Mathes	506, 516, 526, 573, 590, 641, 645, 650, 652, 654, 658, 659, 660, 664, 665, 667, 668, 670, 674, 680, 703, 708
Daewoo	505, 524, 526, 529, 530, 531, 573, 652, 653, 654, 658, 659, 663, 664, 665, 670, 672, 674, 684, 698, 719, 727
Daytron	526, 627, 652, 654, 658, 665, 670, 672
Dimensia	645, 650
DISH Network	742
Dixi	566, 620
Dumont	501, 627, 652
Echostar	722
Electrohome	526, 573, 651, 652, 654, 656, 659, 660, 665, 670, 709, 728

TV	Codes
Emerson	526, 534, 535, 536, 537, 538, 539, 541, 573, 590, 627, 636, 642, 648, 652, 654, 655, 657, 658, 659, 660, 661, 662, 665, 666, 667, 669, 670, 677, 679, 682, 692, 696, 699, 720
Envision	506, 573, 652, 654, 660, 664
Fisher	542, 590, 683
Fujitsu	534, 682, 694
Funai	534, 541, 657, 661, 662, 677, 682, 694
GE	508, 509, 543, 544, 630, 645, 646, 650, 651, 652, 654, 659, 661, 663, 665, 667, 668, 670, 673, 676, 681, 690, 691, 698, 701, 715, 716, 725, 728, 742
Goldstar	505, 523, 526, 545, 546, 566, 573, 652, 653, 654, 655, 656, 658, 659, 660, 664, 665, 670, 671, 678, 693, 730, 747
Gradiente	660, 671
Granada	627, 670, 671
Grundig	670, 673
Hallmark	627, 652, 654, 659
Harmon/Kardon	561, 659
Hinari	534
Hitachi	523, 526, 548, 549, 553, 554, 555, 585, 597, 626, 636, 638, 643, 648, 652, 654, 655, 665, 668, 669, 670, 672, 673, 702, 718, 726
Infinity	566, 671
JBL	566, 671

TV	Codes
JC Penney	505, 506, 516, 525, 526, 543, 546, 631, 645, 646, 650, 652, 653, 654, 658, 659, 664, 667, 668, 670, 673, 676, 678, 680, 690, 691, 701, 725, 726, 728, 730
Jensen	556, 573, 652, 654, 660
JVC	508, 557, 559, 642, 649, 655, 667, 673, 676, 726, 735, 736, 737
Kawasho	548, 561, 573, 652, 654, 664
Kenwood	506, 573, 652, 654, 656, 659, 660, 664, 679, 681
Kloss Nova-beam	657, 663, 698, 723, 724
Konka	753
KTV	526, 539, 541, 573, 657, 658, 661, 662, 664, 665, 670, 696
Lloyds	627, 679
Loewe	566
Logik	675
Luxman	523, 652, 654
LXI	563, 566, 590, 595, 667, 631, 635, 645, 646, 650, 654, 659, 668, 678, 683, 691, 701, 725
Magnasonic	573, 659, 660, 669, 672, 677
Magnavox	506, 520, 525, 536, 566, 567, 568, 573, 610, 652, 654, 656, 659, 660, 664, 665, 666, 669, 671, 673, 674, 677, 723, 724, 729
Majestic	675
Marantz	506, 566, 573, 652, 654, 660, 664, 665, 671, 678, 681

TV	Codes
Megatron	627, 654
Memorex	590, 627, 653, 654, 659, 675, 678, 720
MGA	504, 505, 506, 542, 571, 573, 627, 652, 653, 654, 656, 660, 728
Mitsubishi	504, 505, 542, 570, 571, 572, 573, 597, 623, 627, 652, 653, 654, 656, 659, 660, 664, 665, 670, 671, 705, 728
Montgomery Ward	675
Motorola	521, 605, 651
MTC	505, 506, 516, 523, 573, 627, 652, 653, 654, 659, 664, 667, 672, 680
Multitech	657
NAD	502, 617, 627, 631, 635, 637, 654
National	509
NEC	505, 506, 507, 517, 523, 573, 627, 651, 652, 653, 654, 660, 664, 665, 679, 681, 731, 732
Nikkai	612
Nikko	654, 672, 727
Onwa	541, 657, 661
Optimus	637
Optonica	521, 605, 607
Orion	694
Osaki	612
Panasonic	508, 509, 510, 512, 566, 644, 651, 662, 663, 668, 672, 673, 676, 685, 689, 698, 700, 716, 234, 247

TV	Codes
Philco	505, 506, 525, 536, 568, 573, 610, 651, 652, 653, 654, 655, 656, 659, 660, 664, 665, 666, 669, 671, 672, 674, 677, 723, 724, 729
Philips	525, 566, 651, 652, 655, 656, 671, 690, 723, 724, 729
Pioneer	502, 548, 576, 636, 637, 648, 652, 654, 663, 665, 681, 708
Portland	505, 526, 573, 652, 654, 658, 659, 664, 665, 670, 727
Price Club	680
Prism	676
Proscan	645, 646, 650, 668, 691, 725, 742
Proton	513, 519, 526, 536, 585, 627, 652, 654, 655, 659, 660, 665, 666, 668, 670, 678
Quasar	508, 509, 651, 663, 673, 676, 698, 700, 747
Radio Shack/ Realistic	526, 541, 590, 607, 612, 645, 650, 652, 654, 655, 657, 658, 661, 662, 663, 668, 670, 683, 698, 730
RCA	503, 505, 548, 586, 630, 633, 634, 636, 641, 645, 646, 648, 650, 651, 652, 653, 654, 656, 661, 663, 665, 667, 668, 670, 681, 691, 698, 701, 708, 715, 716, 725, 742, 749
Realistic	590, 645
Runco	501
Sampo	506, 519, 652, 654, 658, 663, 664, 665, 698, 730, 746

TV	Codes
Samsung	505, 506, 516, 523, 526, 566, 573, 612, 627, 647, 652, 653, 654, 655, 656, 658, 659, 664, 665, 667, 669, 670, 679, 680, 704, 717, 730, 738
Sansui	754
Sanyo	542, 590, 652, 683
SBR	566
Schneider	566
Scott	526, 534, 537, 541, 600, 652, 654, 655, 657, 661, 662, 665, 670, 677, 682, 696, 701
Sears	523, 534, 542, 563, 590, 595, 601, 604, 617, 627, 631, 635, 645, 646, 650, 652, 654, 656, 659, 661, 668, 670, 682, 683, 688, 691, 703, 725, 726
Sharp	521, 526, 585, 605, 607, 628, 629, 652, 654, 655, 658, 669, 670, 674, 679, 739, 740, 741
Signature	675
Solavox	612
Sony	500, 578, 640, 670, 690
Soundesign	525, 536, 541, 627, 652, 654, 657, 659, 661, 665, 666, 682
Starlite	657
Supra	523
Sylvania	506, 525, 536, 566, 568, 569, 573, 600, 610, 652, 654, 656, 659, 660, 664, 665, 666, 671, 672, 674, 677, 723, 724, 729, 733
Symphonic	632, 657, 662, 677, 692, 694

TV	Codes
Tandy	521, 605
Tatung	509, 651, 663, 698
Technics	508, 673, 676
Techwood	523, 573, 652, 654, 660, 676
Teknika	504, 505, 512, 516, 523, 524, 525, 526, 534, 536, 541, 573, 644, 652, 653, 654, 655, 657, 658, 661, 662, 664, 665, 666, 670, 672, 675, 680, 681, 682, 685, 726, 727
Telefunken	679
Toshiba	516, 590, 617, 631, 635, 667, 678, 680, 683, 688, 750
Totevision	526, 658, 668
Ultra	672
Universal	543, 690
Vector, Research	506
Video Concepts	570, 661
Wards	536, 573, 607, 645, 650, 652, 653, 654, 656, 659, 664, 665, 666, 667, 668, 669, 674, 675, 677, 678, 682, 690, 715, 723, 724, 729
White, Westinghouse	659, 664, 670, 672, 674
Yamaha	505, 506, 573, 652, 653, 654, 656, 664, 666, 672, 679

VCR CODES

Programming in AUX mode:
Press 1 before entering the VCR code.

VCR	CODES
Aiwa	588, 622, 623
Akai	513, 514, 515, 516, 517, 518, 520, 568, 682
Alba	546
Amstrad	588
ASA	556
Audiovox	676
Bell & Howell	581
Broksonic	559, 748
Bush	589
Calix	676
Canon	554, 678, 679
Capehart	546
CCE	681
Citizen	534, 591, 592, 594, 675, 676, 677, 684
Colortyme	592,
Craig	591, 658, 675, 676, 681, 685, 687, 688
Curtis Mathes	554, 592, 594, 605, 607, 675, 677, 678, 679, 683, 684
Daewoo	506, 534, 546, 547, 559, 588, 684
Daytron	546
Denon	686
Dimensia	607
Dumont	549
Electrohome	512, 676, 687
Emerson	505, 506, 508, 509, 511, 512, 534, 559, 568, 588, 590, 618, 676, 678, 684, 687
Finlandia	549

VCR	CODES
Finlux	549, 556, 588
Fisher	548, 549, 581, 584, 588, 608, 610, 684, 688
Fuji	678
Funai	588
Garrard	588
GE	550, 551, 552, 554, 572, 591, 605, 607, 675, 678, 679
Go Video	557, 558, 620, 685
Goldstar	592, 594, 676, 687, 747
Goodmans	585, 589
Gradiente	588, 687
Granada	549, 581
Grundig	556
Harmon/Kardon	568, 592
Harwood	681
Hinari	589
Hitachi	536, 538, 539, 540, 588, 595, 597, 680, 682, 686
ITT	518
JC Penney	554, 581, 591, 592, 594, 595, 600, 674, 675, 676, 678, 679, 680, 681, 685, 686, 687
Jensen	595, 680, 682
JVC	561, 562, 563, 581, 592, 594, 600, 674, 682, 686
Kenwood	562, 581, 592, 594, 600, 674, 677, 682, 683
KLH	681
Kodak	676, 678
Lloyds	683, 688
Logik	589, 681, 685
Luxor	518

VCR	CODES
LXI	676
Magnasonic	685, 687
Magnavox	527, 533, 554, 556, 678, 679, 684, 685
Marantz	554, 556, 581, 585, 592, 594, 600, 602, 674, 677, 678, 683
Matsushita	678
Memorex	507, 533, 549, 554, 566, 581, 585, 588, 608, 675, 676, 678, 686, 687, 688
MGA	512, 567, 568
Minolta	595, 680, 686
Mitsubishi	512, 562, 567, 568, 570, 571, 595, 680, 687
Motorola	678
MTC	544, 588, 675, 685
Multitech	579, 588, 675, 677, 681
NAD	573
NEC	562, 581, 592, 594, 600, 602, 674, 677, 682, 683
Nikko	676
Noblex	675
Olympus	678
Optimus	676, 687
Optonica	585
Orion	506, 684, 687
Panasonic	523, 554, 598, 614, 628, 633, 678, 679, 684, 685, 688, 747
Pentax	592, 595, 677, 680, 683, 686
Pentex Research	594
Perdio	588
Philco	554, 678, 679, 686

VCR	CODES
Philips	554, 556, 585, 678, 684
Pioneer	562, 573, 574, 575, 576, 600, 674, 680,
Portland	546, 677
Proscan	605, 607,
Proton	685
Quasar	554, 678, 679, 747,
Radio Shack	512, 607, 608, 610, 687
Radio Shack/ Realistic	581, 584, 588, 608, 675, 676, 678, 679
Radix	676
RCA	518, 525, 527, 528, 591, 595, 605, 607, 615, 631, 649, 675, 678, 680, 686
Realistic	534, 549, 554, 581, 584, 585, 588, 608, 675, 678, 679, 687, 688
Ricoh	502
Runco	533
Saisho	506
Salora	567, 581
Samsung	515, 517, 534, 579, 591, 675
Sansui	544, 562, 600, 674, 682, 685
Sanyo	549, 581, 582, 583, 608, 675, 688
SBR	556
Schneider	589
Scott	508, 534, 559, 590, 684, 687
Sears	548, 549, 581, 584, 595, 608, 610, 676, 678, 680, 683, 684, 686, 687, 688
Sentra	546
Sharp	512, 585, 607, 625
Shintom	589, 595, 681, 685

VCR	CODES
Singer	678, 681, 685
Sony	500, 501, 502, 504
STS	678
Sylvania	554, 556, 567, 588, 678, 679
Symphonic	588, 594, 683, 688
Tandy	581, 588
Tashiko	588, 676
Tatung	594, 682,
Teac	588, 594, 682
Technics	554, 633, 678,
Teknika	554, 588, 676, 678, 687
Toshiba	534, 535, 567, 584, 590, 680, 684, 688
Totevision	591, 675, 676, 687
Unitech	675,
Vector Research	534, 592, 600, 674, 677, 683
Video Concepts	534, 568, 592, 600, 674, 677, 683,
Wards	534, 588, 595, 608, 675, 676, 678, 680, 681, 684, 687, 688
XR-1000	588, 678, 681
Yamaha	581, 592, 594, 600, 674, 682, 683
Zenith	500, 501, 533, 747

TV/VCR COMBO CODES

Programming for combination devices:

Program the remote control in TV mode and then in VCR mode.

TV/VCR	TV Codes	VCR Codes
Broksonic	748	748
Goldstar	747	747

TV/VCR	TV Codes	VCR Codes
Panasonic	747	747
Quasar	747	747
Zenith	747	747

DVD PLAYER CODES

Programming in AUX mode:

Press 1 before entering the DVD code.

DVD Players	Codes
Aiwa	634, 694, 751
Alpine	653
Apex	654, 655, 743, 744
Broksonic	656, 752
Clarion,	696
Classic	695
Daewoo	657
Denon	697, 698, 699, 700
Emerson	658, 701
Fisher	659
Funai	658
GE	702, 703
Go Video	692, 693
GPX	704
Hitachi	632, 635, 660, 705, 706, 707
JVC	636, 689, 708, 711
Konka	637, 638, 753
Koss	745
Magnavox	626, 661
Memorex	709
Mintek	710
Mitsubishi	629
NAD	701
Norcent	762

DVD Players	Codes
Onkyo	713
Oritron	723
Panasonic	639, 662, 663, 714, 715, 716, 717, 734
Philips	640, 641
Pioneer	665, 718, 719
Proscan	720
Qwestar	721, 723
RCA	627, 650, 666, 690, 742, 749
Sampo	724
Samsung	651, 652, 667, 668, 691, 740, 741
Sansui	725, 754
Sanyo	643, 726
Sharp	669, 727, 746
Sherwood	728
Sony	617, 644, 645, 670, 671, 729, 730, 731
Sylvania	658
Teac	732
Technics	733
Techwood	664
Toshiba	616, 646, 647, 672, 735, 736, 750,
Yamaha	737, 738, 739
Zenith	648, 673

TUNER/AMPLIFIER CODES

Programming in AUX mode:

Press 2 before entering the tuner/ amplifier code.

Tuner/ Amplifier	Codes
Aiwa	636, 641, 656, 687, 718, 720, 724, 775, 726
Carver	653

Tuner/ Amplifier	Codes
Citizen	709
Curtis Mathes	734
Denon	647, 674
Fisher	653, 741
GE	711
Goldstar	677, 690
Harmon/Kardon	640, 672, 751
Hitachi	717, 754
JBL	640
JVC	637, 683, 703, 725
Kenwood	649, 676, 691, 726, 728, 745
Luxman	752
Magnavox	654, 705, 740
Marantz	651, 740, 742, 743
NAD	739
Nakamichi	671, 748, 750
NEC	716, 739
Onkyo	642, 660, 662, 678
Optimus	648, 664, 734, 744, 749
Panasonic	643, 644, 652, 742, 746
Pioneer	658, 667, 668, 679, 702, 734
Proton	654, 705
Quasar	652, 742, 746
Radio Shack	744
RCA	635, 638, 704, 727
Sansui	753
Sanyo	741
Sharp	712, 713, 714, 715, 749
Sherwood	646, 670, 736, 738, 744
Sony	639, 645, 650, 687, 728, 729, 730

Tuner/ Amplifier	Codes
Teac	684, 737
Technics	643, 644, 652, 742, 746
Toshiba	710
Yamaha	663, 730, 731, 732, 733, 745, 747

DVD/VCR COMBO CODES

DVD/VCR	Codes
Go Video	692,693
JVC	689
RCA	690
Samsung	667,691

TV/DVD COMBO CODES

Programming for combination devices:

Program the remote control in
TV mode and then in VCR (or
AUX - press 1 before entering
the DVD code) mode.

TV/DVD	TV Codes	DVD Codes
Aiwa	751	751
Broksonic	752	752
Konka	753	753
Panasonic	734	734
RCA	749	749
Sansui	754	754
Toshiba	750	750

TROUBLESHOOTING

What's Happening	What's Wrong	What You Can Do
While you do a remote procedure, the remote control stops working.	<ul style="list-style-type: none">• If you don't press any button for 20 seconds in a programming sequence, the remote stops working.• If you hold a button longer than two minutes, the remote control stops transmitting to save battery life.	Start over again.
When you press the remote control Power button to turn the receiver on, the receiver's front panel Power light doesn't turn on.	<ul style="list-style-type: none">• Maybe the batteries are weak or dead.• Maybe you didn't plug the receiver power cord into a power outlet, or maybe there's a problem with the power.• Maybe the remote isn't in SAT mode.• Maybe the remote and the receiver have different addresses.	<ul style="list-style-type: none">• Replace the remote batteries with fresh ones.• Make sure the receiver power cord is plugged into a power outlet.• Press SAT to set the remote to SAT mode to control the receiver.• Make sure the remote and the receiver have the same address. See <i>Setting Up to Control the Receiver</i> on page 4.
The receiver changes channels and displays menus when I am not using the remote control.	<ul style="list-style-type: none">• UHF signals from a neighbor's remote may be controlling your receiver.	<ul style="list-style-type: none">• Change your remote and receiver address (see <i>Setting Up to Control the Receiver</i> on page 4).

What's Happening	What's Wrong	What You Can Do
When you press a button on the remote control, the device doesn't do what you expect.	<ul style="list-style-type: none"> • Maybe you're trying to control a device and you're not pointing the remote control right at it. • Maybe the remote control is missing batteries, maybe you put the batteries in the remote the wrong way, or maybe the batteries are weak or dead. • Maybe you didn't set the remote to the mode for the device you want to control. • Maybe you didn't set up the remote to control the device. • UHF signals from a neighbor's remote may be controlling your receiver. 	<ul style="list-style-type: none"> • Remember, the remote control uses IR signals to control all devices except for the receiver (when using the UHF antenna). IR signals travel <i>only</i> 40 feet or less, and <i>can't</i> go through walls or other solid objects. You <i>must</i> point the remote control right at the device, with <i>no</i> objects to block the signal path. • If the batteries are missing or dead, put fresh AAA-size batteries in. If the remote has fresh batteries, check whether you put them in the right way. If you didn't, take them out and put them in the right way. • Press the correct mode button to set the remote to the mode for the device you want to control. • Make sure you set up the remote to control all the devices you want to use. See <i>Remote Control Setup</i> on page 4. • Change your remote and receiver address (see <i>Setting Up to Control the Receiver</i> on page 4).
When you press the remote control Mute or Volume button, nothing happens.	<ul style="list-style-type: none"> • Maybe you have not set up the remote control. • Maybe you're trying to control TV volume but you set up the remote to control a tuner or amplifier in AUX mode. • Maybe you're trying to control tuner or amplifier volume but you set up the remote to control a TV in AUX mode. 	<ul style="list-style-type: none"> • See <i>Setting Up to Control Other Devices</i> on page 8. • Set up the remote to control <i>either</i> TV volume <i>or</i> tuner/amplifier volume, whichever you want.

What's Happening	What's Wrong	What You Can Do
Your UHF Pro remote control does not work well from far away	<ul style="list-style-type: none"> You may be experiencing interference from objects near your receiver antenna. 	<ul style="list-style-type: none"> Make sure the UHF antenna is connected to the receiver and not touching anything else. Vary the tilt angle of the receiver's UHF antenna. Locate the UHF antenna tip away from other electronics equipment or metal surfaces, even if separated by wooden shelving. Move the receiver to different locations. For best results, place the receiver as high as possible, above all other equipment in your entertainment center. Place the UHF antenna outside the entertainment center by using a coaxial cable to connect it to the receiver. Move any nearby off-air antenna away from the UHF remote antenna. Do not place an off-air antenna on your receiver.

LIMITED WARRANTY



This *Limited Warranty* is a legal document. Keep it in a safe place. Remember to keep your *Sales Receipt* for warranty service. We will consider any items you return without a copy of the *Proof of Purchase* to be out of warranty.

This warranty extends *only* to the original user of the DISH Network remote control ("you," "your") and is *limited* to the purchase price of the remote control. EchoStar Technologies Corporation and its affiliated companies ("we," "our," "us") warrant this remote control against defects in materials or workmanship as follows.

For one year from the original date of purchase, if we find the remote control is defective subject to the limits of this warranty, we will replace the remote at no charge for parts or labor. We warrant any such work done against defects in materials or workmanship for the remaining part of the original warranty period.

This warranty *does not cover* installation of the DISH Network System; consumer instruction; physical set up or adjustment of any consumer electronic device; remote control batteries; signal reception problems; loss of use of the equipment; unused programming charges due to equipment malfunction; cosmetic damage; damage due to

lightning, electrical or telephone line surges, fire, flood, or other acts of Nature; accident; misuse; abuse; repair or alteration by other than our factory service; negligence; commercial or institutional use; improper or neglected maintenance; equipment sold AS IS or WITH ALL FAULTS; equipment removal or reinstallation; shipping damage if the equipment was not packed and shipped in the manner we prescribe; nor equipment purchased, serviced, or operated outside the contiguous United States of America.

REPLACEMENT AS PROVIDED UNDER THIS WARRANTY IS YOUR EXCLUSIVE REMEDY. WE SHALL NOT BE HELD LIABLE FOR ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES FOR BREACH OF ANY EXPRESSED OR IMPLIED WARRANTY ON THIS DEVICE, NOR FOR ANY INCIDENTAL OR CONSEQUENTIAL DAMAGE RESULTING FROM THE USE OF, OR INABILITY TO USE, THIS DEVICE. UNDER NO CIRCUMSTANCES SHALL OUR LIABILITY, IF ANY, EXCEED THE PURCHASE PRICE PAID FOR THIS DEVICE. EXCEPT TO THE EXTENT PROHIBITED BY APPLICABLE LAW, ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE ON THIS DEVICE IS LIMITED IN DURATION TO THE DURATION OF THIS WARRANTY. WE RESERVE THE RIGHT TO REFUSE TO HONOR THIS WARRANTY IF WE DETERMINE ANY OF THE ABOVE EXCEPTIONS TO HAVE CAUSED THIS DEVICE NOT TO HAVE PERFORMED PROPERLY. THIS WARRANTY SHALL BE VOID IF ANY FACTORY-APPLIED IDENTIFICATION MARK, INCLUDING BUT NOT LIMITED TO SERIAL OR CONDITIONAL ACCESS NUMBERS, HAS BEEN ALTERED OR REMOVED. THIS WARRANTY SHALL ALSO BE VOID IF THE DEVICE HAS BEEN OPENED BY AN UNAUTHORIZED PERSON (with the exception of opening the battery cover).

This warranty gives you specific legal rights which may vary from state to state. Some states do not allow the exclusion or limitations of incidental or consequential damages, or allow limitations on the duration of an implied warranty, so those limitations may not apply to you.

ADVANCE EXCHANGE PROGRAM

The Advance Exchange Program allows you to have replacement equipment shipped immediately to you (depending upon where you live, it could take three to five business days). Along with replacement equipment, you will receive a prepaid shipping label and instructions on how to return the defective equipment.

The shipping charge, for receiving replacement equipment and returning the defective equipment, is a one time fee based on EchoStar's competitive bulk shipping rates (additional charges may apply outside of the continental US). This fee will be charged to your billing account or your valid credit card.

If you do not ship the defective equipment to EchoStar within ten days after receiving the replacement, your billing account or credit card will be charged the market price of the replacement. If you return the defective equipment after ten days, you will receive a full refund less an administrative fee.

If your equipment is out of warranty and can be repaired your billing account or credit card will be charged the standard repair fee for the replacement. If damage to the defective equipment is found, which EchoStar in its sole discretion determines has voided the warranty, or makes the equipment unrepairable, your billing account or credit card will be charged the market price of the replacement.

POST RECEIPT EXCHANGE PROGRAM

You may choose to ship the equipment to us at your cost. To provide faster service, upon receipt of your equipment you will be shipped a replacement. Your original equipment will not be available for return.

The equipment you return will be checked to verify whether it is covered under this warranty. If the defective equipment is covered under this warranty, it will be replaced and shipped back to you at no additional cost (additional charges may apply outside of the continental US).

If your equipment is out of warranty and can be repaired your billing account or credit card will be charged the standard repair fee for the replacement. If damage to the defective equipment is found, which EchoStar in its sole discretion determines has voided the warranty, or makes the equipment unrepairable, your billing account or credit card will be charged the market price of the replacement.

ACCESSORY WARRANTY

An accessory is any DISH Network branded equipment, displaying the DISH Network logo, excluding the receiver, Smart Card, cables and hookups, and non-mechanical components. A one-year warranty becomes effective upon the activation of the DISH system or date of purchase, if bought separately. A proof of purchase is required to verify the purchase date. If an accessory has an expired warranty, no exchange will be issued. You may purchase replacement accessories from DISH Network or your local retailer.